

Product List

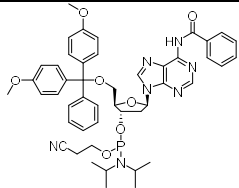
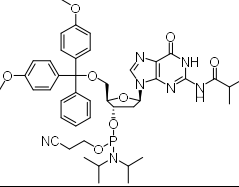
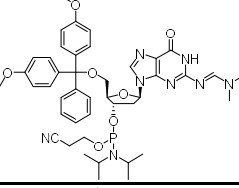
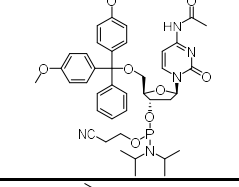
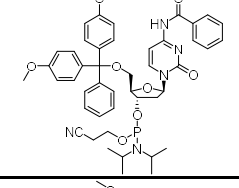
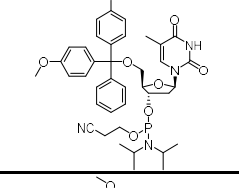
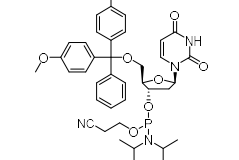
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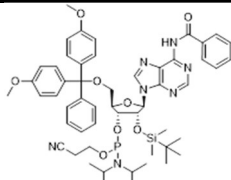
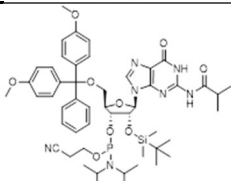
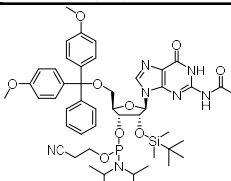
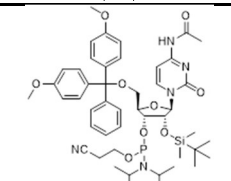
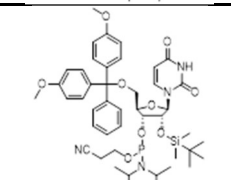
1. Oligonucleotide

1.1. Phosphoramidites

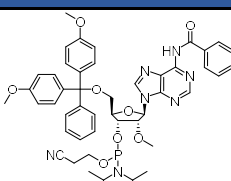
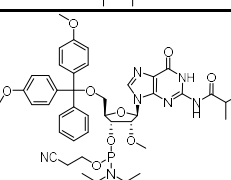
1.1.1. DNA Phosphoramidites

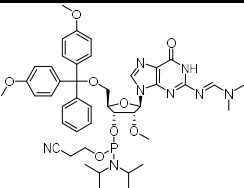
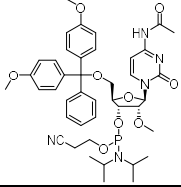
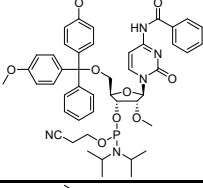
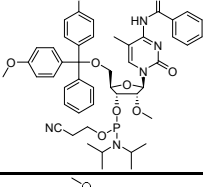
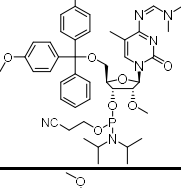
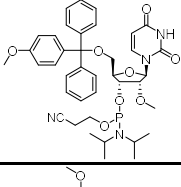
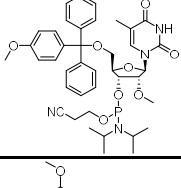
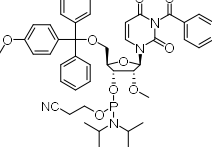
No	Product Name	CAS	Structure	Chemical name	Product Code
1	DMT-dA(Bz)-CE-Phosphoramidite	98796-53-3		N6-benzoyl-DMT-2'-deoxyadenosine-3'-CE Phosphoramidite	TBD
2	DMT-dG(iBu)-CE-Phosphoramidite	93183-15-4		N2-isobutyryl-5'-O-(4, 4'-dimethoxytrityl)-2'-deoxyguanosine-3'-cyanoethyl Phosphoramidite	TBD
3	DMT-dG(dmf)-CE-Phosphoramidite	330628-04-1		N2-dimethylformamide-5'-O-(4, 4'-dimethoxytrityl)-2'-deoxyguanosine-3'-cyanoethyl Phosphoramidite	TBD
4	DMT-dC(Ac)-CE-Phosphoramidite	154110-40-4		N4-acetyl-5'-O-(4, 4'-dimethoxytrityl)- 2'-deoxycytidine-3'-cyanoethyl Phosphoramidite	TBD
5	DMT-dC(Bz)-CE-Phosphoramidite	102212-98-6		N4-benzoyl-5'-O-(4, 4'-dimethoxytrityl)- 2'-deoxycytidine-3'-cyanoethyl Phosphoramidite	TBD
6	DMT-dT-CE-Phosphoramidite	98796-51-1		5'-O-(4, 4'-Dimethoxytrityl)-thymidine-3'-cyanoethyl Phosphoramidite	TBD
7	DMT-dU-CE-Phosphoramidite	109389-30-2		5'-O-(4, 4'-Dimethoxytrityl)-2'-deoxyuridine-3'-CE-Phosphoramidite	TBD

1.1.2. RNA (2'-O-TBDMS) Phosphoramidites

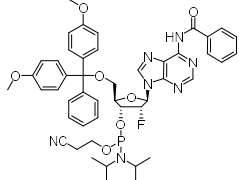
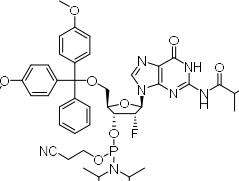
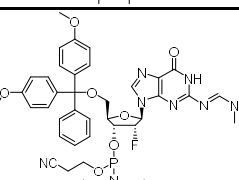
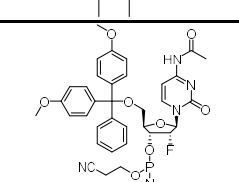
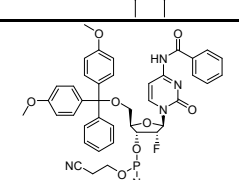
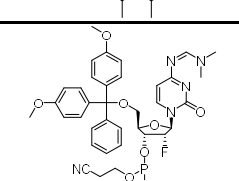
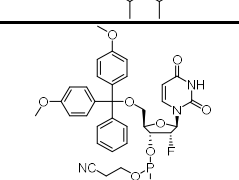
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1	DMT-2'-O-TBDMS-A(Bz)-CE-Phosphoramidite	104992-55-4		N6-benzoyl-5'-O-(4, 4'-dimethoxytrityl)-2'-O-(t-butyl-dimethylsilyl)-adenosine-3'-cyanoethyl Phosphoramidite	N/A
2	DMT-2'-O-TBDMS-G(iBu)-CE-Phosphoramidite	147201-04-5		N2-isobutyryl-5'-O-(4, 4'-dimethoxytrityl)-2'-O-(t-butyl-dimethylsilyl)-guanosine-3'-cyanoethyl Phosphoramidite	N/A
3	DMT-2'-O-TBDMS-G(Ac)-CE-Phosphoramidite	N/A		N2-Acetyl-5'-O-(4, 4'-dimethoxytrityl)-2'-O-(t-butyl-dimethylsilyl)-guanine-3'-cyanoethyl Phosphoramidite	TBD
4	DMT-2'-O-TBDMS-C(Ac)-CE-Phosphoramidite	121058-88-6		N4-acetyl-5'-O-(4, 4'-dimethoxytrityl)-2'-O-(t-butyl-dimethylsilyl)-cytidine-3'-cyanoethyl Phosphoramidite	N/A
5	DMT-2'-O-TBDMS-U-CE-Phosphoramidite	118362-03-1		5'-O-(4, 4'-dimethoxytrityl)-2'-O-(t-butyl-dimethylsilyl)-uridine-3'-cyanoethyl Phosphoramidite	N/A

1.1.3. 2'-OMe Phosphoramidites

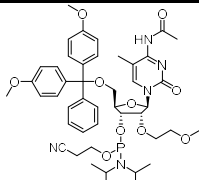
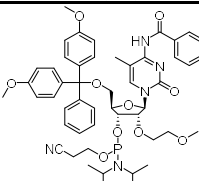
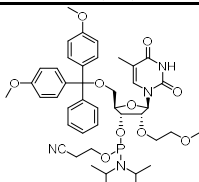
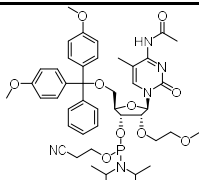
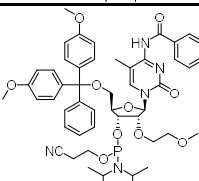
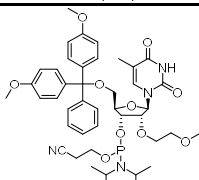
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1	DMT-2'-OMe-A(Bz)-CE-Phosphoramidite	110782-31-5		N6-benzoyl-5'-O-(4, 4'-Dimethoxytrityl)-2'-O-methyl-Adenosine-3'-CE-Phosphoramidite	N/A
2	DMT-2'-OMe-G(iBu)-CE-Phosphoramidite	150780-67-9		N2-isobutyryl-5'-O-(4, 4'-Dimethoxytrityl)-2'-O-methyl-Guanosine-3'-CE-Phosphoramidite	N/A

No	Product Name	CAS	Structure	Chemical name	Product Code
3	DMT-2'-OMe-G(dmf)-CE-Phosphoramidite	128219-77-2		N2-dimethylfromamide-5'-O-(4, 4'-Dimethoxytrityl)-2'-O-methyl-Guanosine-3'-CE-Phosphoramidite	N/A
4	DMT-2'-OMe-C(Ac)-CE-Phosphoramidite	199593-09-4		N4-acetyl-5'-O-(4, 4'-Dimethoxytrityl)-2'-O-methyl-Cytidine-3'-CE-Phosphoramidite	N/A
5	DMT-2'-OMe-C(Bz)-CE-Phosphoramidite	110764-78-8		N4-benzoyl-5'-O-(4, 4'-Dimethoxytrityl)-2'-O-methyl-Cytidine-3'-CE-Phosphoramidite	N/A
6	5-Me-DMT-2'-O-Me-C(Bz)-CE-Phosphoramidite	166593-57-3		N4-benzoyl-5-methyl-5'-O-(4, 4'-dimethoxytrityl)-2'-O-methyl-cytidine-3'-cyanoethyl Phosphoramidite	N/A
7	5-Me-DMT-2'-O-Me-C(dmf)-CE-Phosphoramidite	N/A		N4-Dimethylformamidine-5-methyl-5'-O-(4, 4'-dimethoxytrityl)-2'-O-methyl-cytidine-3'-cyanoethyl Phosphoramidite	N/A
8	DMT-2'-OMe-U-CE-Phosphoramidite	110764-79-9		5'-O-(4, 4'-Dimethoxytrityl)-2'-O-methyl-Uridine-3'-CE-Phosphoramidite	N/A
9	5-Me-DMT-2'-OMe-U-CE-Phosphoramidite	168611-18-5		5-methyl-5'-O-(4, 4'-dimethoxytrityl)-2'-O-methyl-Uridine-3'-CE-Phosphoramidite	N/A
10	DMT-2'-O-Me-U(Bz)-CE-Phosphoramidite	N/A		N3-benzoyl-5'-O-(4, 4'-Dimethoxytrityl)-2'-O-methyl-uridine-3'-cyanoethyl Phosphoramidite	N/A

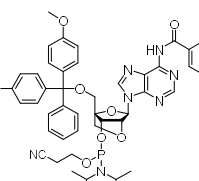
1.1.4. 2'-Fluoro Phosphoramidites

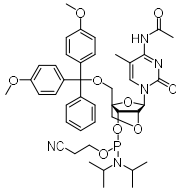
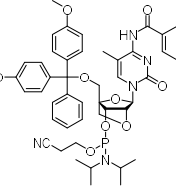
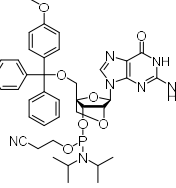
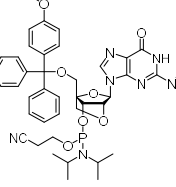
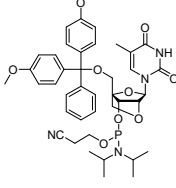
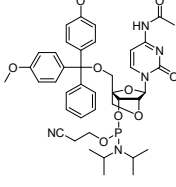
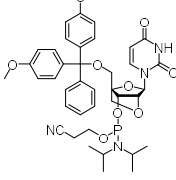
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2	DMT-2'-F-dG(iBu)-CE-Phosphoramidite	144089-97-4		2'-fluoro-N2-isobutyryl-5'-O-(4, 4'-dimethoxytrityl)-2'-deoxyguanosine-3'-CE-Phosphoramidite	N/A
3	DMT-2'-F-dG(dmf)-CE-Phosphoramidite	N/A		2'-fluoro-N2-dimethylformamide-5'-O-(4, 4'-dimethoxytrityl)-2'-deoxyguanosine-3'-CE-Phosphoramidite	N/A
4	DMT-2'-F-dC(Ac)-CE-Phosphoramidite	159414-99-0		N4-acetyl-5'-O-(4, 4'-dimethoxytrityl)-2'-fluoro-2'-deoxycytidine-3'-CE-Phosphoramidite	N/A
5	DMT-2'-F-dC(Bz)-CE-Phosphoramidite	161442-19-9		N4-benzoyl-5'-O-(4, 4'-dimethoxytrityl)-2'-fluoro-2'-deoxycytidine-3'-CE-Phosphoramidite	N/A
6	DMT-2'-F-dC(dmf)-CE-Phosphoramidite	N/A		N4-dimethylformamide-5'-O-(4,4'-Dimethoxytrityl)-2'-fluoro-deoxycytidine -3'-cyanoethyl Phosphoramidite	N/A
7	DMT-2'-F-dU-CE-Phosphoramidite	146954-75-8		5'-O-(4, 4'-dimethoxytrityl)-2'-fluoro-2'-deoxyuridine-3'-CE-Phosphoramidite	N/A

1.1.5. 2'-O-MOE Phosphoramidites

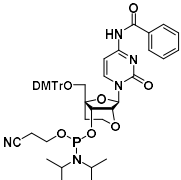
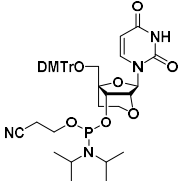
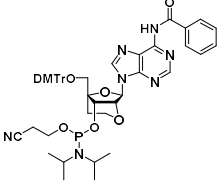
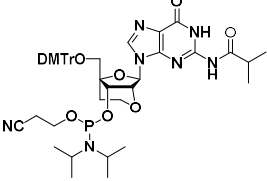
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2	DMT-2'-O-MOE-G(iBu)-CE-Phosphoramidite	251647-55-9		N2-isobutyryl-5'-O-(4, 4'-dimethoxytrityl)-2'-O-methoxyethyl-guanosine-3'-cyanoethyl Phosphoramidite	N/A
3	DMT-2'-F-dG(dmf)-CE-Phosphoramidite	N/A		N2- Dimethylformamidine-5'-O-(4, 4'-dimethoxytrityl)-2'-O-methoxyethyl-guanosine-3'-cyanoethyl Phosphoramidite	N/A
4	5-Me-DMT-2'-O-MOE-C(Ac)-CE-Phosphoramidite	N/A		N4-acetyl -5-methyl-5'-O-(4, 4'-dimethoxytrityl)-2'-O-methoxyethyl-cytidine-3'-cyanoethyl Phosphoramidite	N/A
5	5-Me-DMT-2'-O-MOE-C(Bz)-CE-Phosphoramidite	163759-94-2		N4-benzoyl-5-methyl-5'-O-(4, 4'-dimethoxytrityl)-2'-O-methoxyethyl-cytidine-3'-cyanoethyl Phosphoramidite	N/A
6	DMT-2'-O-MOE-T-CE-Phosphoramidite	163878-63-5		5-methyl-5'-O-(4, 4'-dimethoxytrityl)-2'-O-methoxyethyl-uridine-3'-cyanoethyl Phosphoramidite	N/A

1.1.6. LNA: 2'-O-4'-C-Locked-NA Phosphoramidites

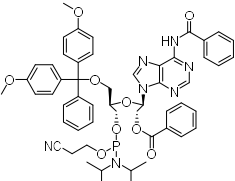
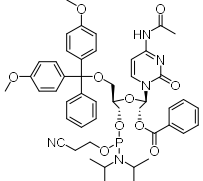
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1	DMT-2'-O-4'-C-Locked-A(Bz)r-CE-Phosphoramidite	206055-79-0		N6-benzoyl-5'-O-(4, 4'-dimethoxytrityl)-2'-O-4'-C-Locked-adenosine-3'-cyanoethyl Phosphoramidite	N/A

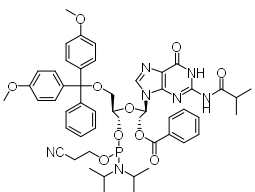
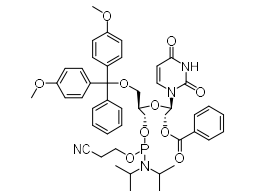
No	Product Name	CAS	Structure	Chemical name	Product Code
2	DMT-2'-O-4'-C-Locked-5-Me-C(Ac)r-CE-Phosphoramidite	N/A		N4-acetyl-5'-O-[Bis(4-methoxyphenyl)phenylmethyl]-2'-O-4'-C-Locked-cytidine-3'-CE Phosphoramidite	N/A
3	DMT-2'-O-4'-C-Locked-5-Me-C(Bz)r-CE-Phosphoramidite	N/A		N4-benzoyl-5-methyl-5'-O-(4,4'-dimethoxytrityl)-2'-O-4'-C-Locked-cytidine-3'-cyanoethyl Phosphoramidite	N/A
4	DMT-2'-O-4'-C-Locked-G(iBu)r-CE-Phosphoramidite	N/A		N2-dimethylformamidine-5'-O-(4,4'-dimethoxytrityl)-2'-O-4'-C-Locked-Guanosine-3'-cyanoethyl Phosphoramidite	N/A
5	DMT-2'-O-4'-C-Locked-G(dmf)r-CE-Phosphoramidite	N/A		N2-dimethylformamidine-5'-O-(4,4'-dimethoxytrityl)-2'-O-4'-C-Locked-Guanosine-3'-cyanoethyl Phosphoramidite	N/A
6	DMT-2'-O-4'-C-Locked-Tr-CE-Phosphoramidite	206055-75-6		5'-O-(4,4'-dimethoxytrityl)-2'-O-4'-C-Locked-thymidine-3'-cyanoethyl Phosphoramidite	N/A
7	DMT-2'-O-4'-C-Locked-C(Ac)r-CE-Phosphoramidite	N/A		N4-acetyl-5'-O-[Bis(4-methoxyphenyl)phenylmethyl]-2'-O-4'-C-Locked-cytidine-3'-CE Phosphoramidite	N/A
8	DMT-2'-O-4'-C-Locked-Ur-CE-Phosphoramidite	N/A		5'-O-[Bis(4-methoxyphenyl)phenylmethyl]-2'-O-4'-C-Locked-uridine-3'-CE Phosphoramidite	N/A

1.1.7. ENA Phosphoramidites

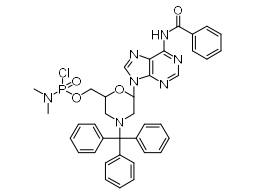
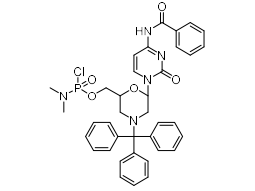
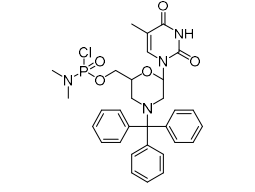
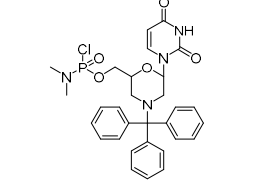
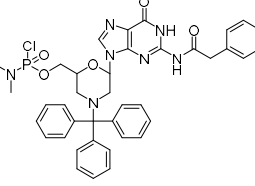
No	Product Name	CAS	Structure	Chemical name	Product Code
1	DMT-2'-O,4'-C-ethylene-C(Bz)r-CE-Phosphoramidite	N/A		5'-O-(4,4'-dimethoxytrityl)-2'-O,4'-C-ethylene-4-N-benzoylcytidine-3'-O-(2-cyanoethyl N,N-diisopropyl) phosphoramidite	N/A
2	DMT-2'-O,4'-C-ethylene-Ur-CE-Phosphoramidite	N/A		5'-O-(4,4'-dimethoxytrityl)-2'-O,4'-C-ethyleneuridine-3'-O-(2-cyanoethyl N,N-diisopropyl) phosphoramidite	N/A
3	DMT-2'-O,4'-C-ethylene-A(Bz)r-CE-Phosphoramidite	N/A		5'-O-(4,4'-dimethoxytrityl)-2'-O,4'-C-ethylene-6-N-benzoyladenosine-3'-O-(2-cyanoethyl N,N-diisopropyl) phosphoramidite	N/A
4	DMT-2'-O,4'-C-ethylene-G(iBu)r-CE-phosphoramidite	N/A		5'-O-(4,4'-dimethoxytrityl)-2'-O,4'-C-ethylene-2-N-isobutyrylguanosine-3'-O-(2-cyanoethyl N,N-diisopropyl) phosphoramidite	N/A

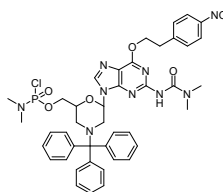
1.1.8. UNA Phosphoramidites

No	Product Name	CAS	Structure	Chemical name	Product Code
1	UNA-A(Bz)-CE Phosphoramidite	N/A		N6-benzoyl-(5'-(4,4'-dimethoxytrityl)-2'-benzoyl-2',3'-seco-adenosine-3'-[(2-cyanoethyl)-(N,N-diisopropyl)] Phosphoramidite	N/A
2	UNA-C(Ac)-CE Phosphoramidite	N/A		N4-acetyl-(5'-(4,4'-dimethoxytrityl)-2'-benzoyl-2',3'-seco-cytidine-3'-[(2-cyanoethyl)-(N,N-diisopropyl)] Phosphoramidite	N/A

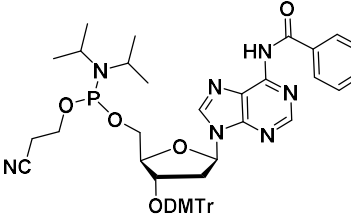
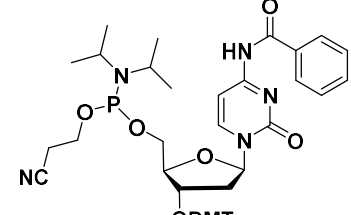
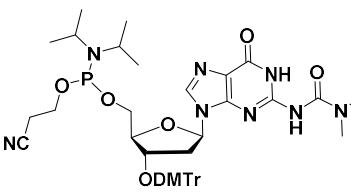
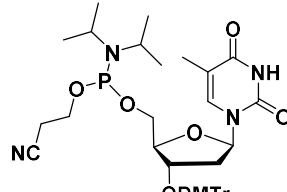
No	Product Name	CAS	Structure	Chemical name	Product Code
3	UNA-G(iBu)-CE Phosphoramidite	N/A		N2-isobutyryl-(5'-(4,4'-dimethoxytrityl)-2'-benzoyl-2',3'-seco-guanosine-3'-[(2-cyanoethyl)-(N,N-diisopropyl)] Phosphoramidite	N/A
4	UNA-U-CE Phosphoramidite	N/A		5'-(4,4'-dimethoxytrityl)-2'-benzoyl-2',3'-seco-uridine-3'-[(2-cyanoethyl)-(N,N-diisopropyl)] Phosphoramidite	N/A

1.1.9. PMO Phosphoramidites

No	Product Name	CAS	Structure	Chemical name	Product Code
1	PMO A(Bz) Phosphoramidites	956139-18-7		(6-(6-benzamido-9H-purin-9-yl)-4-tritylmorpholin-2-yl) methyl dimethylphosphoramidochloridate	N/A
2	PMO C(Bz) Phosphoramidites	956139-21-2		6-(4-benzamido-2-oxopyrimidin-1(2H)-yl)-4-tritylmorpholin-2-yl)methyl Dimethylphosphoramidochloridate	N/A
3	PMO T Phosphoramidites	956139-30-3		6-(5-methyl-2,4-dioxo-3,4-dihydropyrimidin-1(2H)-yl)-4-tritylmorpholin-2-yl)methyl dimethylphosphoramidochloridate	N/A
4	PMO U Phosphoramidites	N/A		(6-(2,4-dioxo-3,4-dihydropyrimidin-1(2H)-yl)-4-tritylmorpholin-2-yl)methyl dimethylphosphoramidochloridate	N/A
5	PMO G(PhAc) Phosphoramidites	N/A		6-(6-oxo-2-(2-phenylacetamido)-1H-purin-9(6H)-yl)-4-tritylmorpholin-2-yl)methyl dimethylphosphoramidochloridate	N/A

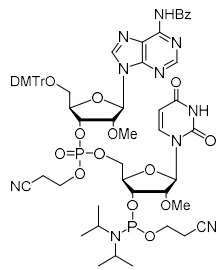
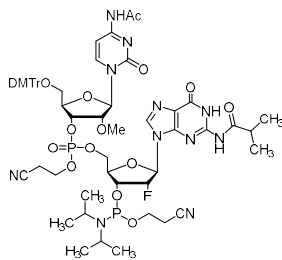
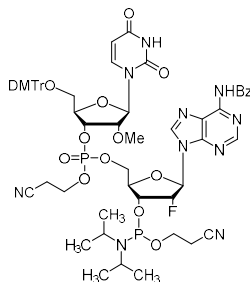
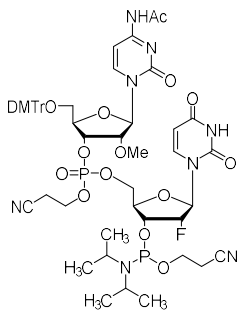
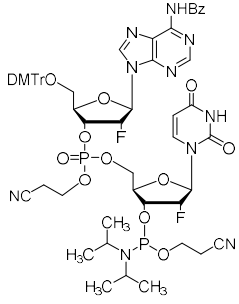
No	Product Name	CAS	Structure	Chemical name	Product Code
6	PMO O(6)-NPE G(iBu) Phosphoramidites	N/A		N2-isobutyryl-O6-p-nitrophenethyl-9-(4'-trityl-6'-methoxy-(dimethylamino)(chloro)phosphate)-morpholin-2'-yl)-guanine	N/A

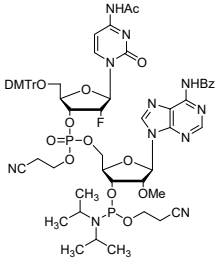
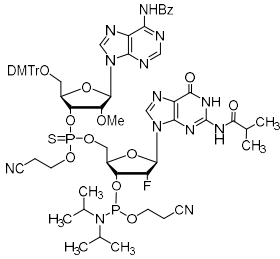
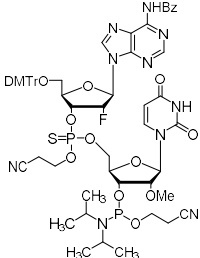
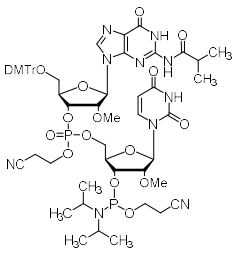
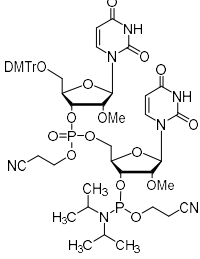
1.1.10. 3' Inverted Phosphoramidites

No	Product Name	CAS	Structure	Chemical name	Product Code
1	DMT-dA(Bz)-CE-Inverted-Phosphoramidite	140712-82-9		N6-benzoyl-3'-O-(4, 4'-dimethoxytrityl)-2'-deoxyadenosine-5'-cyanoethyl Phosphoramidite	N/A
2	DMT-dC(Bz)-CE-Inverted-Phosphoramidite	140712-83-0		N4-benzoyl-3'-O-(4, 4'-dimethoxytrityl)-2'-deoxycytidine-5'-cyanoethyl Phosphoramidite	N/A
3	DMT-dG(iBu)-CE-Inverted-Phosphoramidite	N/A		N2-isobutyryl-3'-O-(4, 4'-dimethoxytrityl)-2'-deoxyguanosine-5'-cyanoethyl Phosphoramidite	N/A
4	DMT-dT-CE-Inverted-Phosphoramidite	134031-86-0		3'-O-(4, 4'-Dimethoxytrityl)-thymidine-5'-cyanoethyl Phosphoramidite	N/A

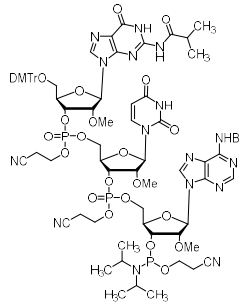
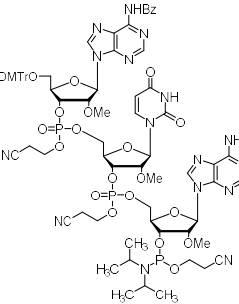
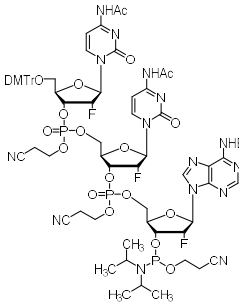
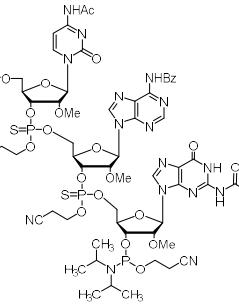
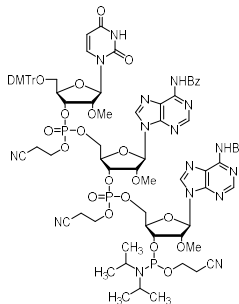
1.2. Short Phosphoramidite

1.2.1. Dimer

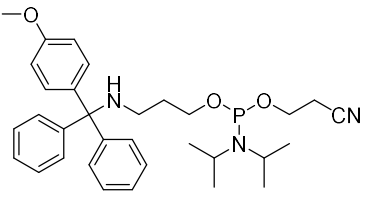
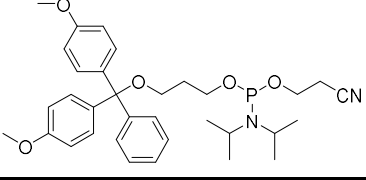
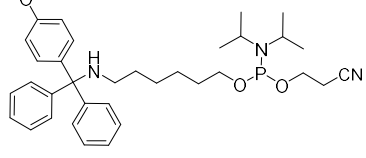
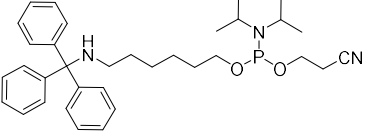
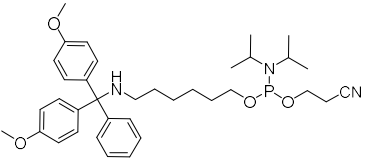
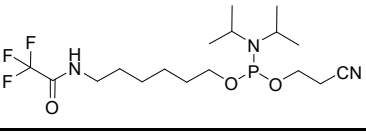
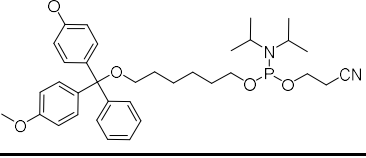
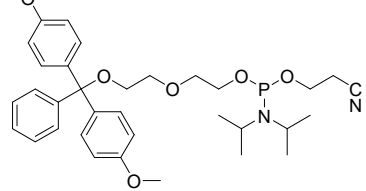
No	Product Name	CAS	Structure	Chemical name	Product Code
1	AmUm	N/A		5'-O-DMTr-2'-OMe-dA(Bz)](pCyEt)[2'-OMe-U-3'-CE-Phosphoramidite	N/A
2	CmGf	N/A		5'-O-DMTr-2'-OMe-C(Ac)](pCyEt)[2'-F-G(ibu)-3'-CE-Phosphoramidite	N/A
3	UmAf	N/A		5'-O-DMTr-2'-F-U]](pCyEt)[2'-F-dA(Bz)-3'-CE-Phosphoramidite	N/A
4	CmUf	N/A		5'-O-DMTr-2'-OMe-C(Ac)](pCyEt)[2'-F-U-3'-CE-Phosphoramidite	N/A
5	AfUf	N/A		5'-O-DMTr-2'-F-dA(Bz)](pCyEt)[2'-F-U-3'-CE-Phosphoramidite	N/A

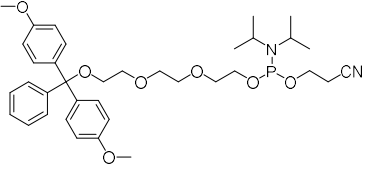
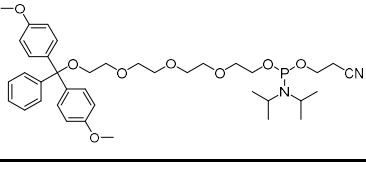
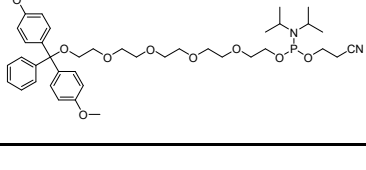
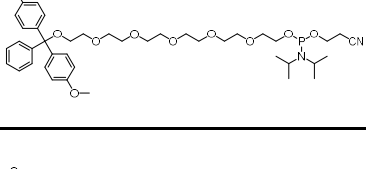
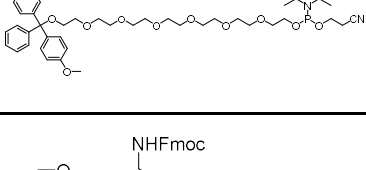
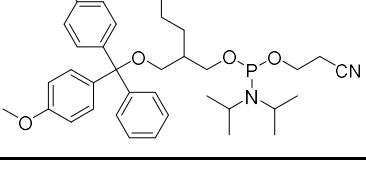
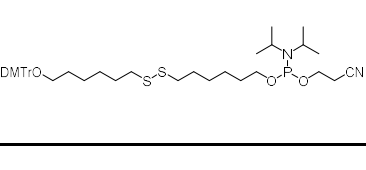
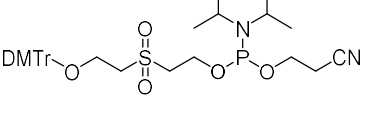
6	CfAm	N/A		5'-O-DMTr-2'-F-C(Ac)[(pCyEt)[2'-OMe-dA(Bz)-3'-CE-Phosphoramidite	N/A
7	AmsGf	N/A		5'-O-DMTr-2'-OMe-dA(Bz)[(P-thio-pCyEt)[2'-F-G(ibu)-3'-CE-Phosphoramidite	N/A
8	AfsUm	N/A		5'-O-DMTr-2'-F-U[(P-thio-pCyEt)[2'-OMe-U-3'-CE-Phosphoramidite	N/A
9	GmUm	N/A		5'-O-DMTr-2'-OMe-G(ibu)[(pCyEt)[2'-OMe-U-3'-CE-Phosphoramidite	N/A
10	UmUm	N/A		5'-O-DMTr-2'-F-U[(pCyEt)[2'-OMe-U-3'-CE-Phosphoramidite	N/A

1.2.2. Trimer

No	Product Name	CAS	Structure	Chemical name	Product Code
1	GmUmAm	N/A		5'-O-DMTr-2'-OMe-G(iBu)](pCyEt)[2'-OMe-U](pCyEt)[2'-OMe-dA(Bz)-3'-CE-Phosphoramidite	N/A
2	AmUmAm	N/A		5'-O-DMTr-2'-OMe-dA(Bz)](pCyEt)[2'-OMe-U](pCyEt)[2'-OMe-dA(Bz)-3'-CE-Phosphoramidite	N/A
3	CfCfAf	N/A		5'-O-DMTr-2'-F-C(Ac)](pCyEt)[2'-F-C(Ac)](pCyEt)[2'-F-dA(Bz)-3'-CE-Phosphoramidite	N/A
4	CmsAmsGm	N/A		5'-O-DMTr-2'-OMe-C(Ac)](P-thio-pCyEt)[2'-OMe-dA(Bz)](P-thio-pCyEt)[2'-OMe-G(iBu)-3'-CE-Phosphoramidite	N/A
5	UmAmAm	N/A		5'-O-DMTr-2'-OMe-U](pCyEt)[2'-OMe-dA(Bz)](pCyEt)[2'-OMe-dA(Bz)-3'-CE-Phosphoramidite	N/A

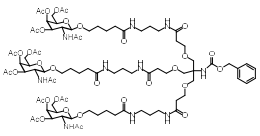
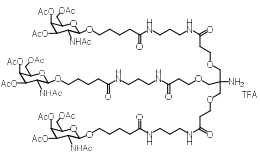
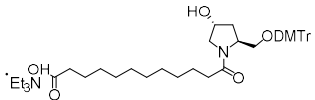
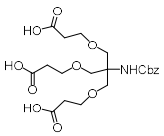
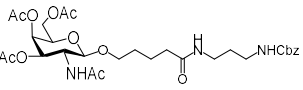
1.3. Spacer

No	Product Name	CAS	Structure	Chemical name	Product Code
1	Monomethoxytrityl-propylamine-linker Phosphoramidite	119462-97-4		2-cyanoethyl (3-(((4-methoxyphenyl)diphenylmethyl)amino)propyl) diisopropylphosphoramidite	133373
2	Spacer Phosphoramidite C3	110894-23-0		3-(bis(4-methoxyphenyl)(phenyl)methoxy)propyl (2-cyanoethyl) diisopropylphosphoramidite	133819
3	Monomethoxytrityl-hexylamine-linker Phosphoramidite	114616-27-2		2-cyanoethyl (6-(((4-methoxyphenyl)diphenylmethyl)amino)hexyl) diisopropylphosphoramidite	127660
4	Trityl-C6-aminolinker Phosphoramidite	N/A		2-cyanoethyl (6-(tritylamino)hexyl) diisopropylphosphoramidite	133820
5	DMT-C6-aminolinker Phosphoramidite	N/A		6-((bis(4-methoxyphenyl)(phenyl)methyl)amino)hexyl (2-cyanoethyl) diisopropylphosphoramidite	130743
6	TFA-C6-aminolinker amidite	133975-85-6		2-cyanoethyl (6-(2,2,2-trifluoroacetamido)hexyl) diisopropylphosphoramidite	127659
7	Spacer Phosphoramidite C6	158041-82-8		6-(bis(4-methoxyphenyl)(phenyl)methoxy)hexyl (2-cyanoethyl) diisopropylphosphoramidite	133821
8	DMTr-O-Diethyleneglycol Phosphoramidite	N/A		2-(2-(bis(4-methoxyphenyl)(phenyl)methoxy)ethoxy)ethyl (2-cyanoethyl) diisopropylphosphoramidite	133376

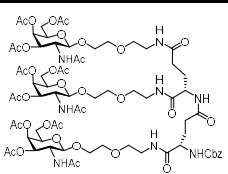
No	Product Name	CAS	Structure	Chemical name	Product Code
9	DMTr-O-Triethyleneglycol Phosphoramidite	146668-73-7		2-(2-(2-(bis(4-methoxyphenyl)(phenyl)methoxy)ethoxy)ethoxy)ethyl (2-cyanoethyl) diisopropylphosphoramidite	133822
10	DMTr-O-Tetraethyleneglycol Phosphoramidite	158041-83-9		1,1-bis(4-methoxyphenyl)-1-phenyl-2,5,8,11-tetraoxatridecan-13-yl (2-cyanoethyl) diisopropylphosphoramidite	133378
11	DMT-PEG Phosphoramidite	165682-44-0		1,1-bis(4-methoxyphenyl)-1-phenyl-2,5,8,11,14-pentaoxahexadecan-16-yl (2-cyanoethyl) diisopropylphosphoramidite	133823
12	Spacer Phosphoramidite 18	125607-09-2		1,1-bis(4-methoxyphenyl)-1-phenyl-2,5,8,11,14,17-hexaoxonadecan-19-yl (2-cyanoethyl) diisopropylphosphoramidite	133824
13	Spacer Phosphoramidite 20	165682-45-1		1,1-bis(4-methoxyphenyl)-1-phenyl-2,5,8,11,14,17,20-heptaoxadocosan-22-yl (2-cyanoethyl) diisopropylphosphoramidite	133825
14	N-Fmoc-C6-2-(DMTmethoxyl)-aminelinker Phosphoramidite	N/A		(9H-fluoren-9-yl)methyl (6-(bis(4-methoxyphenyl)(phenyl)methoxy)-5-(((2-cyanoethoxy)(diisopropylamino)phosphanyl)oxy)methyl)hexyl carbamate	133826
15	Thio-modifier C6 S-S linker	148254-21-1		6-((6-(bis(4-methoxyphenyl)(phenyl)methoxy)hexyl)disulfanyl)hexyl (2-cyanoethyl) diisopropylphosphoramidite	133827
16	2-O-DMT-sulfonyldiethanol phosphoramidite	108783-02-4		2-((2-(bis(4-methoxyphenyl)(phenyl)methoxy)ethyl)sulfonyl)ethyl (2-cyanoethyl) diisopropylphosphoramidite	133835

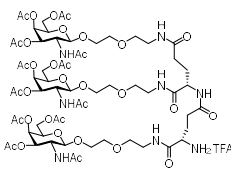
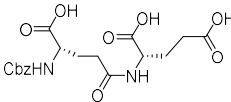
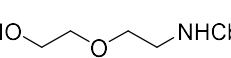
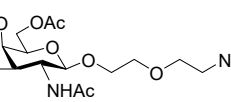
1.4. GalNAc

1.4.1. L96 Series

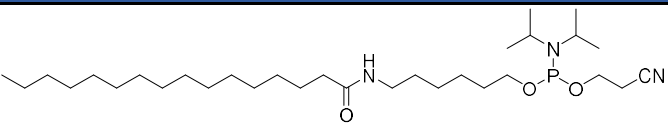
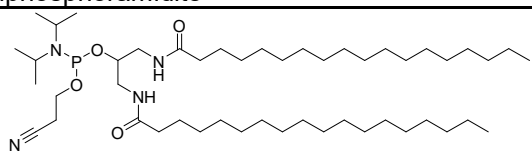
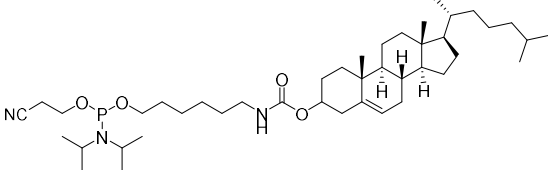
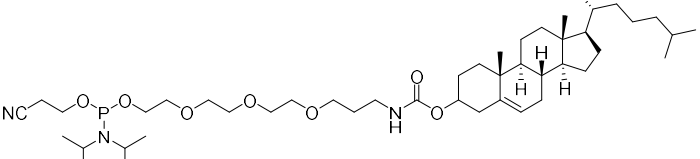
No	Product Name	CAS	Structure	Chemical name	Product Code
1	Z-L96	1159408-63-5		N/A	129497
2	L96-Amine	1159408-65-7		Tri-GalNAc(OAc) ₃	129498
3	L96-Linker	1159408-71-5		triethylamine 12-((2S,4R)-2-((bis(4-methoxyphenyl)(phenyl)methoxy)methyl)-4-hydroxypyrrolidin-1-yl)-12-oxododecanoate	129496
4	L96-Scaffold	200133-16-0		3,3'-((2-(((benzyloxy)carbonyl)amino)-2-((2-carboxyethoxy)methyl)propane-1,3-diyl)bis(oxy))dipropionic acid	129491
5	L96-GalNAc-Tether	1637413-95-6		(2R,3R,4R,5R,6R)-5-acetamido-2-(acetoxymethyl)-6-(((5-((3-(((benzyloxy)carbonyl)amino)propyl)amino)-5-oxopentyl)oxy)tetrahydro-2H-pyran-3,4-diyl) diacetate	129488

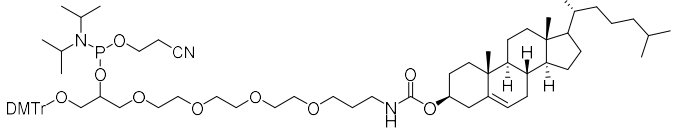
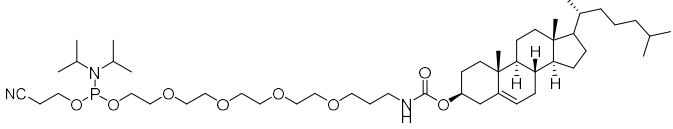
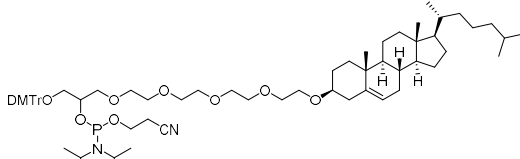
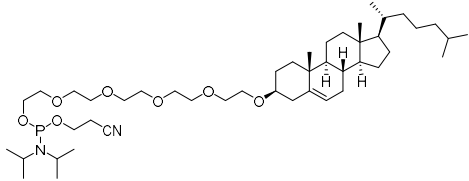
1.4.2. NAG Series

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1	Z-NAG	N/A		N/A	133713

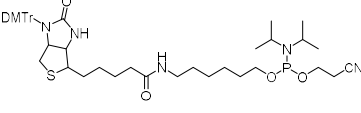
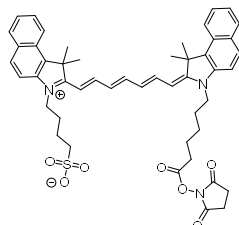
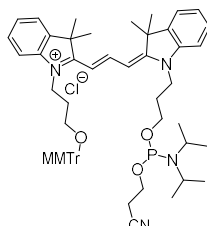
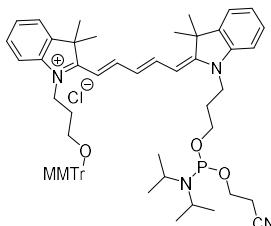
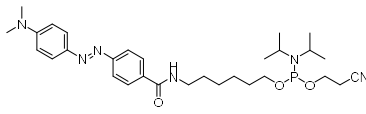
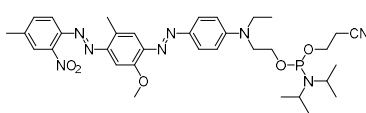
No	Product Name	CAS	Structure	Chemical name	Product Code
2	NAG Amine	N/A		N/A	133714
3	NAG-Scaffold	866557-13-3		((S)-4-(((benzyloxy)carbonyl)amino)-4-carboxybutanoyl)-L-glutamic acid	133709
4	NAG-Tether	145881-74-9		benzyl (2-(2-hydroxyethoxy)ethyl) carbamate	133710
5	NAG-GalNAc-Tether	1261568-35-7		(2R,3R,4R,5R,6R)-5-acetamido-2-(acetoxymethyl)-6-(2-(2-(((benzyloxy)carbonyl)amino)ethoxy)ethoxy)tetrahydro-2H-pyran-3,4-diyl diacetate	133711

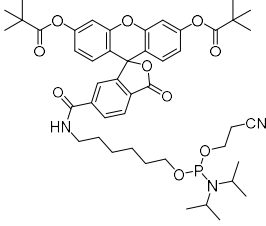
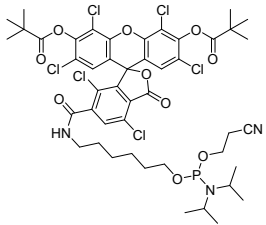
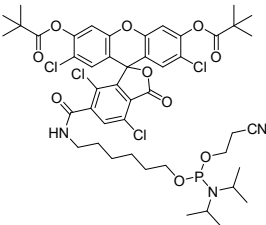
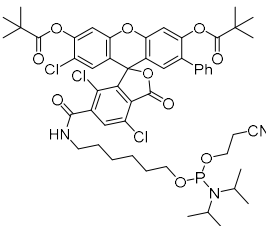
1.5. Linkers for targeting delivery

No	Product Name	CAS	Structure / Chemical name	Product Code
1	Palmitic Aminohexanol Phosphoramidite	N/A		133828
2	2-cyanoethyl (1,3-distearamidopropan-2-yl) diisopropylphosphoramidite	207273-85-6		133462
3	5'-Cholesterol-CE-Phosphoramidite	N/A		133829
4	5'-Cholesterol-TEG-CE-Phosphoramidite	1325147-19-0		133830

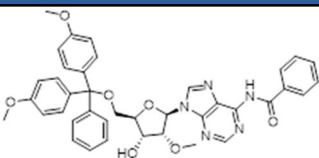
No	Product Name	CAS	Structure / Chemical name	Product Code
			1,1-bis(4-methoxyphenyl)-17-(((3S,8S,9S,10R,14R,17R)-10-methyl-17-((R)-6-methylheptan-2-yl)-2,3,4,7,8,9,10,11,12,13,14,15,16,17-tetradecahydro-1H-cyclopenta[a]phenanthren-3-yl)oxy)-1-phenyl-2,6,9,12,15-pentaoxaheptadecan-4-yl (2-cyanoethyl) diisopropylphosphoramidite	
5	DMTr-Cholesteryl-TEG Phosphoramidite	873435-29-1	 <p>2-cyanoethyl (14-(((3S,8S,9S,10R,14R,17R)-10-methyl-17-((R)-6-methylheptan-2-yl)-2,3,4,7,8,9,10,11,12,13,14,15,16,17-tetradecahydro-1H-cyclopenta[a]phenanthren-3-yl)oxy)-3,6,9,12-tetraoxatetradecyl) diisopropylphosphoramidite</p>	133831
6	Cholesterol tetraethylene glycol (TetraEG) amidite	N/A	 <p>(3S,8S,9S,10R,14R,17R)-10-methyl-17-((R)-6-methylheptan-2-yl)-2,3,4,7,8,9,10,11,12,13,14,15,16,17-tetradecahydro-1H-cyclopenta[a]phenanthren-3-yl (4-(((2-cyanoethoxy)(diisopropylamino)phosphanyl)oxy)-1,1-bis(4-methoxyphenyl)-1-phenyl-2,6,9,12,15-pentaoxaoctadecan-18-yl)carbamate</p>	133832
7	Cholesteryl amidite	N/A	 <p>(8S,9S,10R,14R,17R)-10-methyl-17-((R)-6-methylheptan-2-yl)-2,3,4,7,8,9,10,11,12,13,14,15,16,17-tetradecahydro-1H-cyclopenta[a]phenanthren-3-yl (3-(2-(2-(2-(((2-cyanoethoxy)(diisopropylamino)phosphanyl)oxy)ethoxy)ethoxy)ethoxy)propyl)carbamate</p>	133833
8	5'-Cholesterol-PEG ₅ -CE-Phosphoramidite	N/A	 <p>(3S,8S,9S,10R,14R,17R)-10-methyl-17-((R)-6-methylheptan-2-yl)-2,3,4,7,8,9,10,11,12,13,14,15,16,17-tetradecahydro-1H-cyclopenta[a]phenanthren-3-yl (1-(((2-cyanoethoxy)(diisopropylamino)phosphanyl)oxy)-3,6,9,12-tetraoxapentadecan-15-yl)carbamate</p>	133834

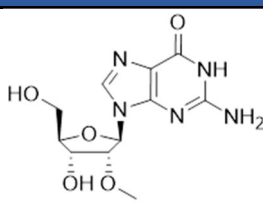
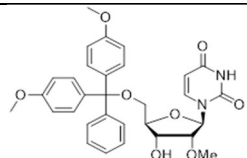
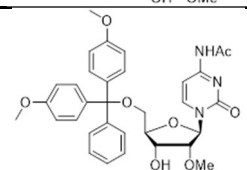
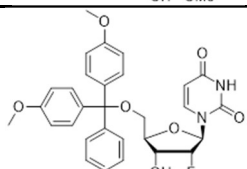
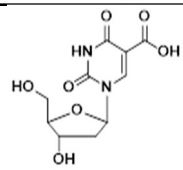
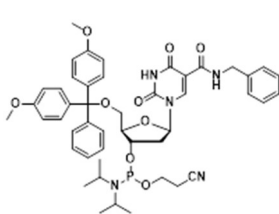
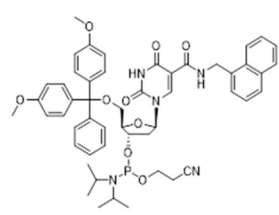
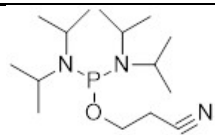
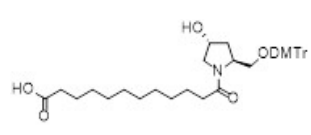
1.6. Dye Phosphoramidite

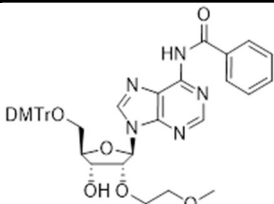
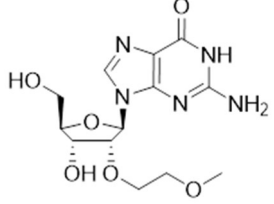
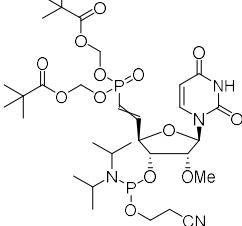
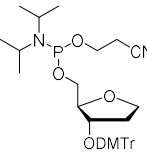
No	Product Name	CAS	Structure	Chemical name	Product Code
1	5'-Biotin Phosphoramidite	1807503-79-2		6-(5-(1-(bis(4-methoxyphenyl)(phenyl)methyl)-2-oxohexahydro-1H-thieno[3,4-d]imidazole-4-yl)pentanamido)hexyl(2-cyanoethyl)diisopropyl phosphoramidite	133836
2	ICG-NHS	1622335-40-3		4-(2-(((1E,3E,5E,7E)-7-(3-(6-((2,5-dioxopyrrolidin-1-yl)oxy)-6-oxohexyl)-1,1-dimethyl-1,3-dihydro-2H-benzo[e]indol-2-ylidene)hepta-1,3,5-trien-1-yl)-1,1-dimethyl-1H-benzo[e]indol-3-ium-3-yl)butane-1-sulfonate	133411
3	Cyanine 3 Phosphoramidite	182873-76-3		2-(((E)-3-((E)-1-(3-(((2-cyanoethoxy)(diisopropylamino)phosphanyl)oxy)propyl)-3,3-dimethylindolin-2-ylidene)prop-1-en-1-yl)-1-(3-(((4-methoxyphenyl)diphenylmethoxy)propyl)-3,3-dimethyl-3H-indol-1-ium chloride	133837
4	Cyanine 5 mono MMT phosphoramidite	182873-67-2		2-(((1E,3E)-5-((E)-1-(3-(((2-cyanoethoxy)(diisopropylamino)phosphanyl)oxy)propyl)-3,3-dimethylindolin-2-ylidene)penta-1,3-dien-1-yl)-1-(3-(((4-methoxyphenyl)diphenylmethoxy)propyl)-3,3-dimethyl-3H-indol-1-ium chloride	133838
5	5'-Dabcyl-CEPhosphoramidite	288631-58-3		(E)-2-cyanoethyl (6-(4-(((4-(dimethylamino)phenyl)diazenyl)benzamido)hexyl)diisopropyl phosphoramidite	133839
6	5'-HDQ-1 Phosphoramidite	N/A		2-cyanoethyl (2-(ethyl(4-((E)-(2-methoxy-5-methyl-4-((E)-(4-methyl-2-nitrophenyl)diazenyl)phenyl)diazenyl)phenyl)amino)ethyl) diisopropyl phosphoramidite	133840

No	Product Name	CAS	Structure	Chemical name	Product Code
7	5'-Fluorescein Phosphoramidite	204697-37-0		6-(((6-(((2-cyanoethoxy)(diisopropylamino)phosphanyl)oxy)hexyl)carbonyl)-3-oxo-3H-spiro [isobenzofuran-1,9'-xanthene]-3',6'-diyl bis(2,2-dimethyl propanoate)	133841
8	HEX Dye Amidite	1360547-55-2		2',4,4',5',7,7'-hexachloro-6-(((6-(((2-cyanoethoxy)(diisopropylamino)phosphanyl)oxy)hexyl)carbonyl)-3-oxo-3H-spiro [isobenzofuran-1,9'-xanthene]-3',6'-diyl bis(2,2-dimethyl propanoate)	133842
9	TET Dye Amidite	877049-90-6		2',4,7,7'-tetrachloro-6-(((6-(((2-cyanoethoxy)(diisopropylamino)phosphanyl)oxy)hexyl)carbonyl)-3-oxo-3H-spiro [isobenzofuran-1,9'-xanthene]-3',6'-diyl bis(2,2-dimethyl propanoate)	133843
10	VIC2 Phosphoramidite	N/A		2',4,7-trichloro-6-(((6-(((2-cyanoethoxy)(diisopropylamino)phosphanyl)oxy)hexyl)carbonyl)-3-oxo-7'-phenyl-3H-spiro [isobenzofuran-1,9'-xanthene]-3',6'-diyl bis(2,2-dimethyl propanoate)	133844

1.7. Others

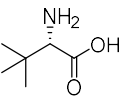
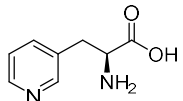
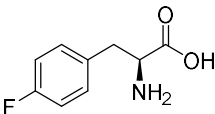
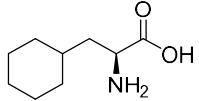
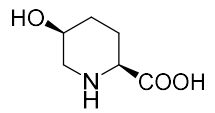
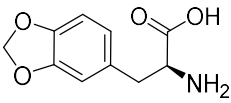
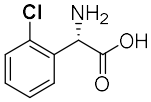
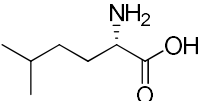
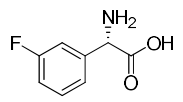
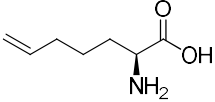
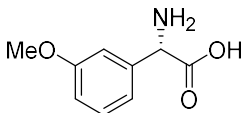
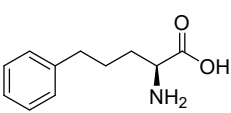
No	Product Name	CAS	Structure	Chemical name	Product Code
1	N6-Bz-DMT-2'-OMe-Ar	110764-72-2		N6-benzoyl-5'-O-(4, 4'-dimethoxytrityl)-2'-O-methyl-Adenosine	N/A


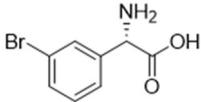
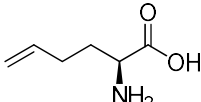
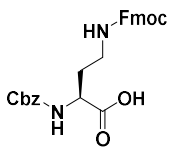
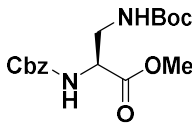
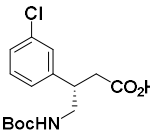
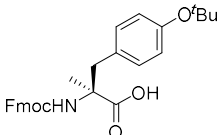
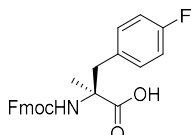
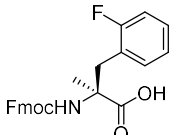
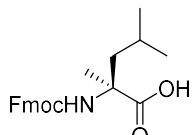
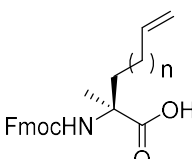
No	Product Name	CAS	Structure	Chemical name	Product Code
2	2'-OMe-Gr	2140-71-8		2'-O-methyl-guanosine	N/A
3	DMT-2'-OMe-Ur	103285-22-9		5'-O-(4, 4'-dimethoxytrityl)-2'-O-methyl-Uridine	N/A
4	N4-Ac-DMT-2'-OMe-Cr	199593-08-3		N4-acetyl-5'-O-(4, 4'-dimethoxytrityl)-2'-O-methyl-cytidine	N/A
5	DMT-2'-F-dU	146954-74-7		5'-O-(4, 4'-dimethoxytrityl)-2'-fluoro-2'-deoxyuridine	N/A
6	5-Carboxy-2'-dU	14599-46-3		5-Carboxy-2'-deoxyuridine	N/A
7	DMT-dZ-CE-Phosphoramidite	N/A		(2R,5R)-5-(5-(benzylcarbamoyl)-2,4-dioxo-3,4-dihydropyrimidin-1(2H)-yl)-2-((bis(4-methoxyphenyl)(phenyl)methoxy)methyl) tetrahydrofuran-3-yl (2-cyanoethyl) diisopropylphosphoramidite	N/A
8	DMT-dP-CE-Phosphoramidite	2133842-85-8		(2R,5R)-2-((bis(4-methoxyphenyl)(phenyl)methoxy)methyl)-5-(5-(naphthalen-1-ylmethyl)carbamoyl)-2,4-dioxo-3,4-dihydropyrimidin-1(2H)-yl)tetrahydrofuran-3-yl (2-cyanoethyl) diisopropylphosphoramidite	N/A
9	2-Cyanoethyl-N,N,N',N'-tetraisopropylphosphorodiamidite	102691-36-1		3-((bis(diisopropylamino)phosphanyl)oxy) propanenitrile	N/A
10	12-((2S,4R)-2-((bis(4-methoxyphenyl)(phenyl)methoxy)methyl)-4-hydroxypyrrolidin-1-yl)-12-oxododecanoic acid	1159408-70-4		12-((2S,4R)-2-((bis(4-methoxyphenyl)(phenyl)methoxy)methyl)-4-hydroxypyrrolidin-1-yl)-12-oxododecanoic acid	N/A

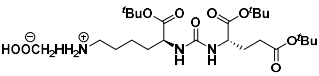
No	Product Name	CAS	Structure	Chemical name	Product Code
11	N6-Bz-DMT-2'-O-MOE-Ar	251647-48-0		N6-benzoyl-5'-O-(4,4'-dimethoxytrityl)-2'-O-methoxyethyl-adenosine	N/A
12	2'-O-MOE-Gr	473278-54-5		2'-O-Methoxyethyl-guanosine	N/A
13	5'-VP-2'-OMe-U-CE-Phosphoramidite	2172373-55-4		(((2-((2R,3R,4R,5R)-3-(((2-cyanoethoxy)(diisopropylamino)phosphanyl)oxy)-5-(2,4-dioxo-3,4-dihydropyrimidin-1(2H)-yl)-4-methoxytetrahydrofuran-2-yl)vinyl)phosphoryl)bis(oxy))bis(methylene) bis(2,2-dimethylpropanoate)	N/A
14	Inverted Abasic Phosphoramidite	401813-16-9		3-[[[(2R,3S)-3-[bis(4-methoxyphenyl)-phenylmethoxy]oxolan-2-yl]methoxy-[di(propan-2-yl)amino]phosphanyl]oxypropenenitrile	N/A

2. Peptide

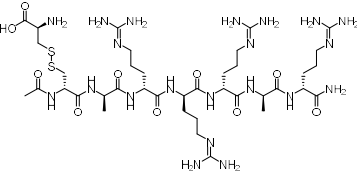
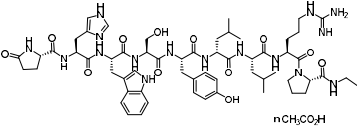
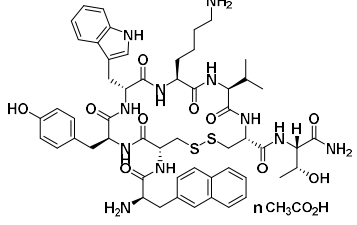
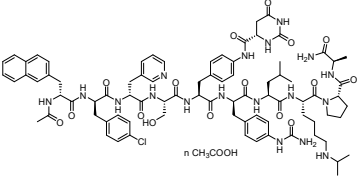
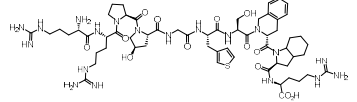
2.1. Unnatural Amino Acid

No	Product Name	CAS	Structure	Chemical name	Product Code
1	L-tert-Leucine	20859-02-3		L-tert-Leucine	114498
2	H-3-Pal-OH	64090-98-8		3-(3-Pyridyl)-L-alanine	116520
3	H-Phe(4-F)-OH	1132-68-9		4-Fluoro-L-phenylalanine	116526
4	H-Cha-OH	27527-05-5		(S)-2-Amino-3-cyclohexylpropanoic acid	116557
5	(2S,5S)-5-Hydroxypiperidine-2-carboxylic acid	63088-78-8		(2S,5S)-5-Hydroxypiperidine-2-carboxylic acid	119636
6	(S)-2-amino-3-(benzo[d][1,3]dioxol-5-yl)propanoic acid	32161-31-2		(S)-2-amino-3-(benzo[d][1,3]dioxol-5-yl) propanoic acid	116540
7	L-(+)-2-(2-Chlorophenyl)glycine	141315-50-6		L-(+)-2-(2-Chlorophenyl)glycine	121937
8	H-HoLeu-OH	31872-98-7		L-Homoleucine	121910
9	L-3-Fluorophenylglycine	154006-66-3		L-3-Fluorophenylglycine	121911
10	(S)-2-Aminohept-6-enoic acid	166734-64-1		(S)-2-Aminohept-6-enoic acid	121912
11	(2S)-Amino(3-methoxyphenyl)acetic acid	108647-55-8		(2S)-Amino(3-methoxyphenyl)acetic acid	121935
12	(S)-2-Amino-5-phenylpentanoic acid	62777-25-7		(S)-2-Amino-5-phenylpentanoic acid	121960

No	Product Name	CAS	Structure	Chemical name	Product Code
13	4-Bromo-D-phenylalanine	62561-74-4		4-Bromo-D-phenylalanine	116899
14	(S)-2-Amino-2-(3-bromophenyl)acetic acid	2088419-03-6		(S)-2-Amino-2-(3-bromophenyl)acetic acid	121975
15	L-Homo Allyl Glycine	90989-12-1		(S)-2-Aminohex-5-enoic acid	121921
16	Z-Dab(Fmoc)-OH	151132-82-0		Z-Dab(Fmoc)-OH	128206
17	(S)-Methyl 2-N-Cbz-3-N-Boc-propanoate	58457-98-0		(S)-Methyl 2-N-Cbz-3-N-Boc-propanoate	121872
18	(S)-4-((tert-butoxycarbonyl)amino)-3-(3-chlorophenyl)butanoic acid	2411197-88-9		(S)-4-((tert-butoxycarbonyl)amino)-3-(3-chlorophenyl)butanoic acid	121887
19	Fmoc-α-Me-L-Phe(4- ^t BuO)-OH	1309873-74-2		(S)-2-(((9H-fluoren-9-yl)methoxy)carbonyl)amino)-3-(4-(tert-butoxy)phenyl)-2-methylpropanoic acid	124973
20	Fmoc-α-methyl-L-4-Fluorophenylalanine	1175838-03-5		Fmoc-α-methyl-L-4-Fluorophenylalanine	N/A
21	Fmoc-α-methyl-L-2-Fluorophenylalanine	1172127-44-4		Fmoc-α-methyl-L-2-Fluorophenylalanine	124974
22	Fmoc-α-Me-L-Leu-OH	312624-65-0		Fmoc-α-Me-L-Leu-OH	124975
23	(S)-N-Fmoc-α-(4-pentenyl)alanine (n=2)	288617-73-2		(S)-N-Fmoc-α-(4-pentenyl)alanine	121656
	Fmoc-(S)-2-(7-octenyl)Ala-OH (n=5)	288617-75-4		Fmoc-(S)-2-(7-octenyl)Ala-OH	121657

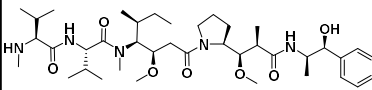
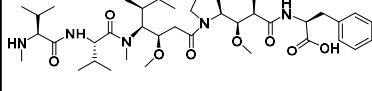
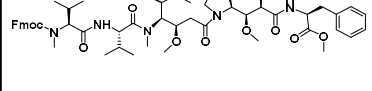
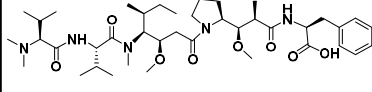
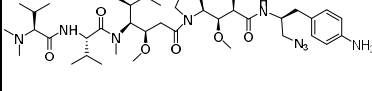
No	Product Name	CAS	Structure	Chemical name	Product Code
	4,10,12-triazahexadecan-16-oic acid				
7	di-tert-butyl (((S)-6-amino-1-(tert-butoxy)-1-oxohexan-2-yl)carbamoyl)-L-glutamate formate salt	1980012-04-1		di-tert-butyl (((S)-6-amino-1-(tert-butoxy)-1-oxohexan-2-yl)carbamoyl)-L-glutamate formate salt	123723

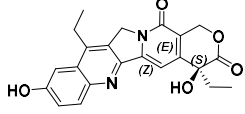
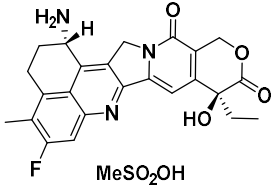
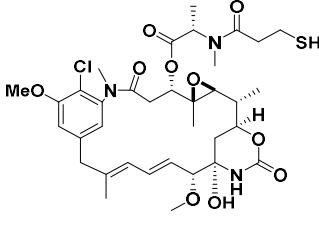
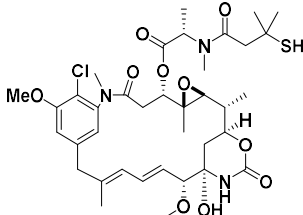
2.4. Peptide APIs

No	Product Name	CAS	Structure	Chemical name	Product Code
1	Etelcalcetide	1334237-71-6		Ac-D-Cys(S-S-Cys)-D-Ala-D-Arg-D-Arg-D-Arg-D-Ala-D-Arg-NH ₂	124304
2	Lupron Leuprolide Acetate	53714-56-0		pGlu-His-Trp-Ser-Tyr-D-Leu-Leu-Arg-Pro-NHEt	119799
3	Lanreotide Acetate	108736-35-2		H-D-2Nal-Cys-Tyr-D-Trp-Lys-Val-Cys-Thr-NH ₂ (disulfide, Cys2-7)	119442
4	Degarelix Acetate	214766-78-6		Ac-D-Nal-D-Cpa-D-Pal-Ser-Aph(L-Hor)-D-Aph(Cbm)-Leu-Lys(iPr)-Pro-D-Ala-NH ₂	119116
5	Icatibant Acetate	130308-48-4		H-D-Arg-Arg-Pro-Hyp-Gly-Thi-Ser-D-Tic-Oic-Arg-OH	119443

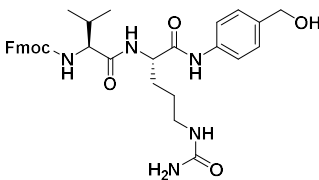
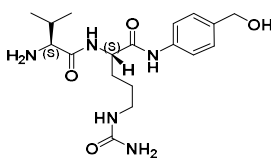
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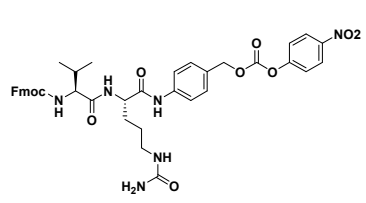
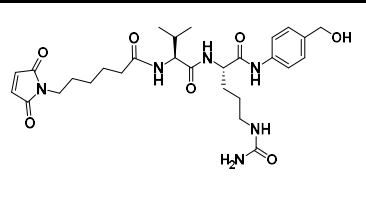
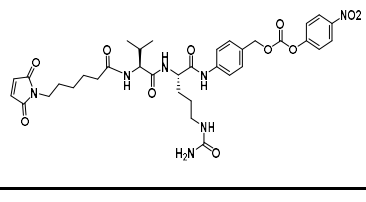
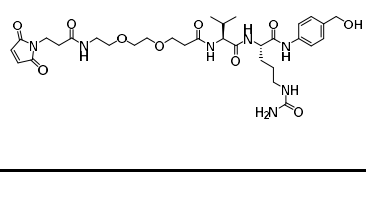
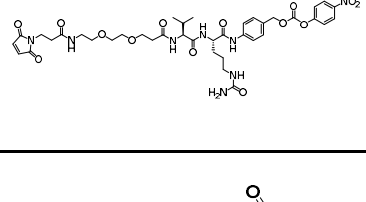
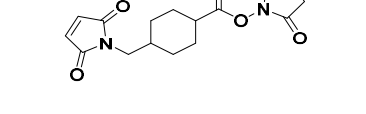
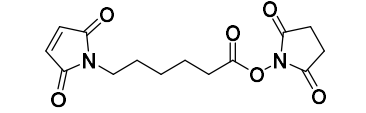
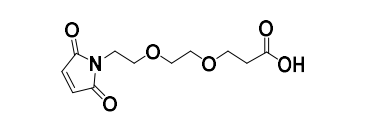
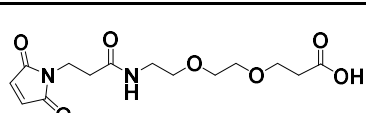
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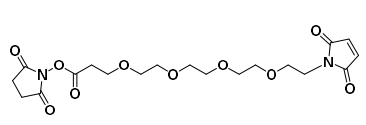
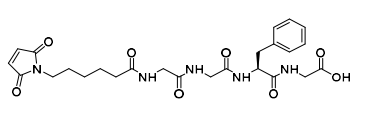
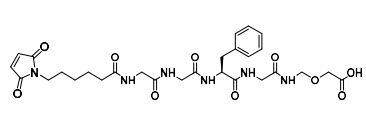
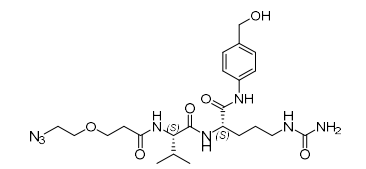
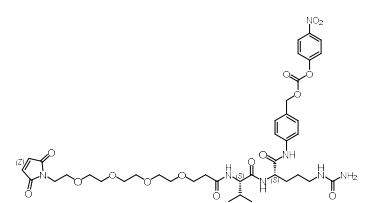
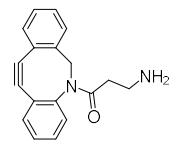
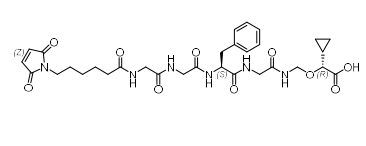
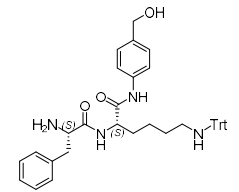
No	Product Name	CAS	Structure	Chemical name	Product Code
1	MMAE	474645-27-7		(S)-N-((3R,4S,5S)-1-((S)-2-((1R,2R)-3-(((1S,2R)-1-hydroxy-1-phenylpropan-2-yl)amino)-1-methoxy-2-methyl-3-oxopropyl)pyrrolidin-1-yl)-3-methoxy-5-methyl-1-oxoheptan-4-yl)-N,3-dimethyl-2-((S)-3-methyl-2-(methylamino)butanamido)butanamide	118504
2	MMAF	745017-94-1		((2R,3R)-3-((S)-1-((3R,4S,5S)-4-((S)-N,3-dimethyl-2-((S)-3-methyl-2-(methylamino)butanamido)butanamide)-3-methoxy-5-methylheptanoyl)pyrrolidin-2-yl)-3-methoxy-2-methylpropanoyl)-L-phenylalanine	130366
3	Fmoc-MMAF-OMe	N/A		methyl ((2R,3R)-3-((S)-1-((3R,4S,5S)-4-((S)-2-((S)-2-(((9H-fluoren-9-yl)methoxy)carbonyl)(methylamino)-3-methylbutanamido)-N,3-dimethylbutanamido)-3-methoxy-5-methylheptanoyl)pyrrolidin-2-yl)-3-methoxy-2-methylpropanoyl)-L-phenylalaninate	125852
4	Auristatin F	163768-50-1		((2R,3R)-3-((S)-1-((3R,4S,5S)-4-((S)-2-((S)-2-(dimethylamino)-3-methylbutanamido)-N,3-dimethylbutanamido)-3-methoxy-5-methylheptanoyl)pyrrolidin-2-yl)-3-methoxy-2-methylpropanoyl)-L-phenylalanine	122095
5	Duostatin-5	2124210-34-8		(S)-N-((3R,4S,5S)-1-((S)-2-((1R,2R)-3-(((S)-1-(4-aminophenyl)-3-azidopropan-2-yl)amino)-1-methoxy-2-methyl-3-oxopropyl)pyrrolidin-1-yl)-3-methoxy-5-methyl-1-oxoheptan-4-yl)-2-((S)-2-(dimethylamino)-3-methylbutanamido)-N,3-dimethylbutanamide	124032

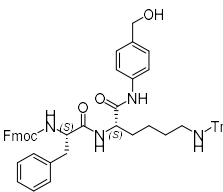
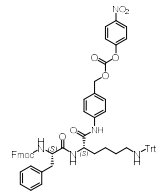
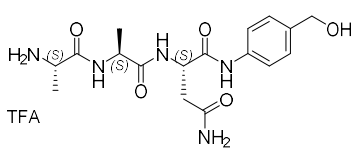
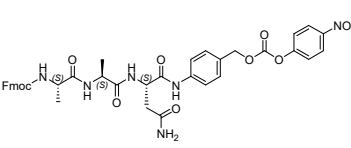
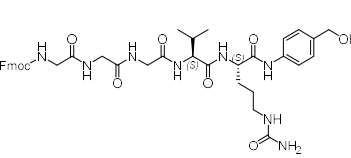
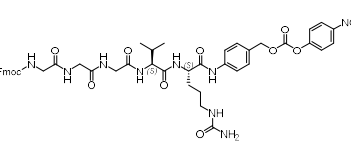
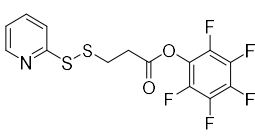
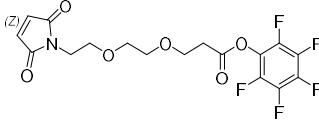
No	Product Name	CAS	Structure	Chemical name	Product Code
6	SN38	86639-52-3		(S)-4,11-diethyl-4,9-dihydroxy-1,12-dihydro-14H-pyrano[3',4':6,7]indolizino[1,2-b]quinoline-3,14(4H)-dione	126259
7	Exatecan	169869-90-3		(1S,9S)-1-amino-9-ethyl-5-fluoro-9-hydroxy-4-methyl-1,2,3,9,12,15-hexahydro-10H,13H-benzo[de]pyrano[3',4':6,7]indolizino[1,2-b]quinoline-10,13-dione methanesulfonate	128214
8	DM1	139504-50-0		(14S,16S,32S,33S,2R,4S,10E,12E,14R)-86-chloro-14-hydroxy-85,14-dimethoxy-33,2,7,10-tetramethyl-12,6-dioxo-7-aza-1(6,4)-oxazinana-3(2,3)-oxirana-8(1,3)-benzenacyclotetradecaphane-10,12-dien-4-yl N-(3-mercaptopropanoyl)-N-methyl-L-alaninate	130365
9	DM4	796073-69-3		(14S,16S,32S,33S,2R,4S,10E,12E,14R)-86-chloro-14-hydroxy-85,14-dimethoxy-33,2,7,10-tetramethyl-12,6-dioxo-7-aza-1(6,4)-oxazinana-3(2,3)-oxirana-8(1,3)-benzenacyclotetradecaphane-10,12-dien-4-yl N-(3-mercapto-3-methylbutanoyl)-N-methyl-L-alaninate	129296

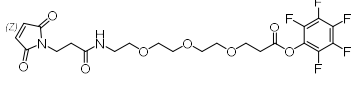
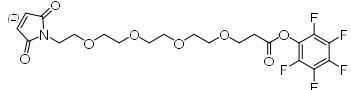
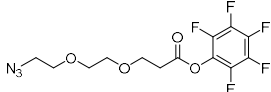
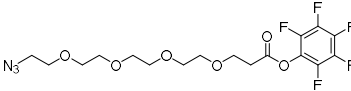
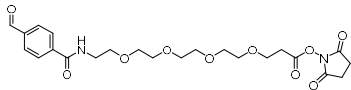
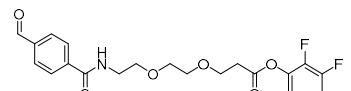
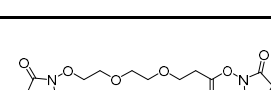
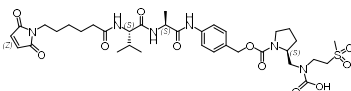
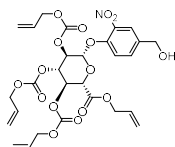
3.2. Linker

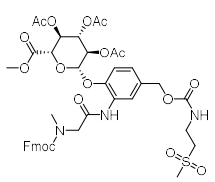
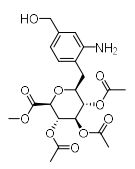
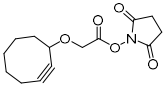
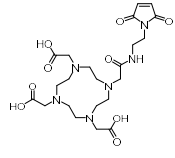
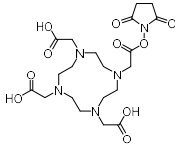
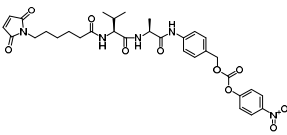
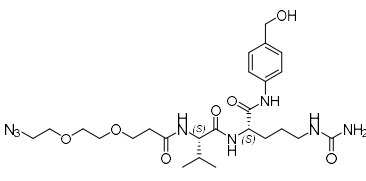
No	Product Name	CAS	Structure	Chemical name	Product Code
1	Fmoc-Val-Cit-PAB-OH	159858-22-7		(9H-fluoren-9-yl)methyl (((S)-1-(((S)-1-((4-(hydroxymethyl)phenyl)amino)-1-oxo-5-ureidopentan-2-yl)amino)-3-methyl-1-oxobutan-2-yl)carbamate	119133
2	Val-Cit-PAB	159857-79-1		(S)-2-((S)-2-amino-3-methylbutanamido)-N-(4-(hydroxymethyl)phenyl)-5-ureidopentanamide	119134

No	Product Name	CAS	Structure	Chemical name	Product Code
3	Fmoc-Val-Cit-PAB-PNP	863971-53-3		(9H-fluoren-9-yl)methyl ((S)-3-methyl-1-(((S)-1-((4-((4-nitrophenoxy)carbonyl)oxy)methyl)phenyl)amino)-1-oxo-5-ureidopentan-2-yl)amino)-1-oxobutan-2-yl)carbamate	130711
4	MC-VC-PAB-OH	159857-80-4		6-(2,5-dioxo-2,5-dihydro-1H-pyrrol-1-yl)-N-((S)-1-(((S)-1-(4-(hydroxymethyl)phenyl)amino)-1-oxo-5-ureidopentan-2-yl)amino)-3-methyl-1-oxobutan-2-yl)hexanamide	118178
5	MC-VC-PAB-PNP	159857-81-5		4-((S)-2-((S)-2-(6-(2,5-dioxo-2,5-dihydro-1H-pyrrol-1-yl)hexanamido)-3-methylbutanamido)-5-ureidopentanamido)benzyl (4-nitrophenyl) carbonate	119839
6	Mal-di-PEG-Val-Cit-PAB	2504147-53-7		(S)-2-((S)-16-(2,5-dioxo-2,5-dihydro-1H-pyrrol-1-yl)-2-isopropyl-4,14-dioxo-7,10-dioxo-3,13-diazahexadecanamido)-N-(4-(hydroxymethyl)phenyl)-5-ureidopentanamide	129988
7	Mal-di-PEG-Val-Cit-PNP	2112738-13-1		4-((2S,5S)-19-(2,5-dioxo-2,5-dihydro-1H-pyrrol-1-yl)-5-isopropyl-4,7,17-trioxo-2-(3-ureidopropyl)-10,13-dioxo-3,6,16-triazanonadecanamido)benzyl (4-nitrophenyl) carbonate	129989
8	SMCC	64987-85-5		2,5-dioxopyrrolidin-1-yl 4-((2,5-dioxo-2,5-dihydro-1H-pyrrol-1-yl)methyl)cyclohexane-1-carboxylate	133744
9	N-Succinimidyl 6-Maleimidohexanoate	55750-63-5		2,5-dioxopyrrolidin-1-yl 6-(2,5-dioxo-2,5-dihydro-1H-pyrrol-1-yl)hexanoate	118761
10	Mal-PEG2-acid	1374666-32-6		3-(2-(2-(2,5-dioxo-2,5-dihydro-1H-pyrrol-1-yl)ethoxy)ethoxy)propanoic acid	133745
11	Mal-amido-PEG2-C2-acid	756525-98-1		3-(2-(2-(3-(2,5-dioxo-2,5-dihydro-1H-pyrrol-1-yl)propanamido)ethoxy)ethoxy)propanoic acid	123406

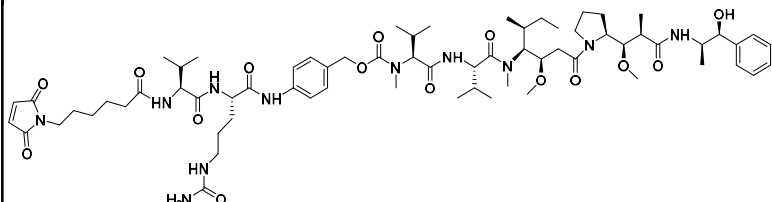
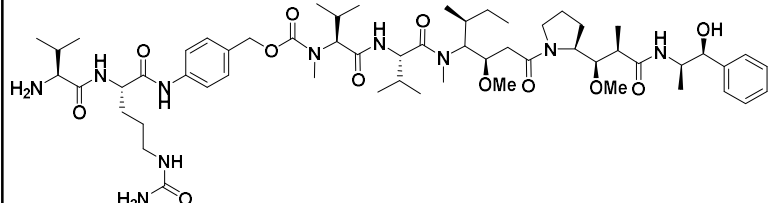
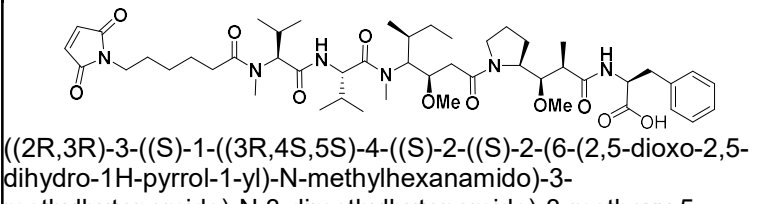
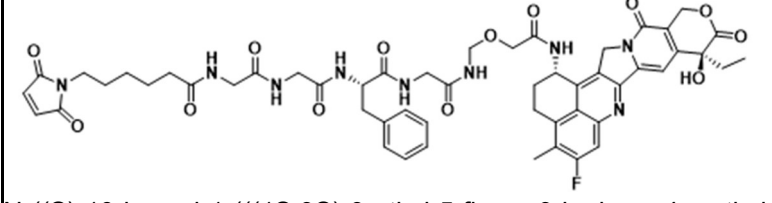
No	Product Name	CAS	Structure	Chemical name	Product Code
12	Mal-PEG4-NHS ester	1325208-25-0		2,5-dioxopyrrolidin-1-yl 1-(2,5-dioxo-2,5-dihydro-1H-pyrrol-1-yl)-3,6,9,12-tetraoxapentadecan-15-oate	133746
13	MC-GGFG-OH	2413428-36-9		(6-(2,5-dioxo-2,5-dihydro-1H-pyrrol-1-yl)hexanoyl)glycyglycyl-L-phenylalanylglycine	133747
14	MC-GGFG-Glycolic acid	1599440-25-1		(S)-10-benzyl-23-(2,5-dioxo-2,5-dihydro-1H-pyrrol-1-yl)-6,9,12,15,18-pentaoxo-3-oxa-5,8,11,14,17-pentaazatricosanoic acid	127455
15	Azido-PEG1-Val-Cit-PAB-OH	2055041-40-0		(S)-2-((S)-2-(3-(2-azidoethoxy)propanamido)-3-methylbutanamido)-N-(4-(hydroxymethyl)phenyl)-5-ureidopentanamide	N/A
16	mal-PEG4-Val-Cit-PAB-PNP	2112738-09-5		4-((17S,20S)-1-(2,5-dioxo-2,5-dihydro-1H-pyrrol-1-yl)-17-isopropyl-15,18-dioxo-20-(3-ureidopropyl)-3,6,9,12-tetraoxa-16,19-diazahenicosan-21-amido)benzyl (4-nitrophenyl) carbonate	N/A
17	DBCO-Amine	1255942-06-3		Dibenzocyclooctyne-amine	N/A
18	(2R,10S)-10-benzyl-2-cyclopropyl-23-(2,5-dioxo-2,5-dihydro-1H-pyrrol-1-yl)-206,9,12,15,18-pentaoxo-3-oxa-5,8,11,14,17-pentaazatricosanoic acid	2626930-80-9		(2R,10S)-10-benzyl-2-cyclopropyl-23-(2,5-dioxo-2,5-dihydro-1H-pyrrol-1-yl)-206,9,12,15,18-pentaoxo-3-oxa-5,8,11,14,17-pentaazatricosanoic acid	N/A
19	Phe-Lys(Trt)-PAB	N/A		(S)-2-((S)-2-amino-3-phenylpropanamido)-N-(4-(hydroxymethyl)phenyl)-6-(tritylamino)hexanamide	N/A

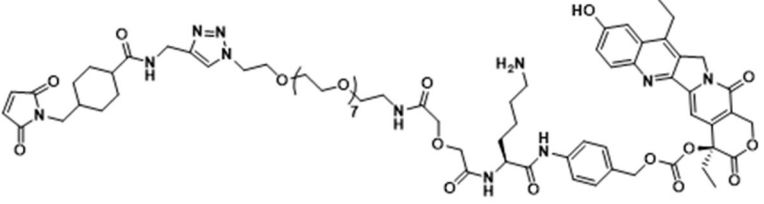
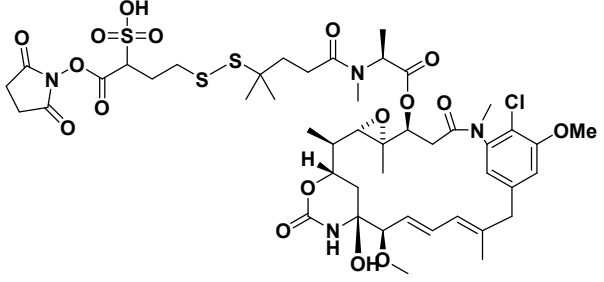
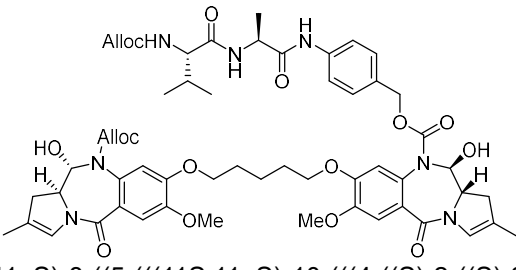
No	Product Name	CAS	Structure	Chemical name	Product Code
20	Fmoc-Phe-Lys(Trt)-PAB	N/A		(9H-fluoren-9-yl)methyl ((S)-1-(((S)-1-(4-(hydroxymethyl)phenyl)amino)-1-oxo-6-(tritylamino)hexan-2-yl)amino)-1-oxo-3-phenylpropan-2-yl)carbamate	N/A
21	Fmoc-Phe-Lys(Trt)-PAB-PNP	1116086-09-9		(9H-fluoren-9-yl)methyl ((S)-1-(((S)-1-(4-(((4-nitrophenoxy)carbonyl)oxy)methyl)phenyl)amino)-1-oxo-6-(tritylamino)hexan-2-yl)amino)-1-oxo-3-phenylpropan-2-yl)carbamate	N/A
22	Ala-Ala-Asn-PAB TFA salt	2149584-00-7 (free)		(S)-2-((S)-2-((S)-2-aminopropanamido)propanamido)-N1-(4-(hydroxymethyl)phenyl)succinamide 2,2,2-trifluoroacetaldehyde salt	N/A
23	Fmoc-Ala-Ala-Asn-PAB-PNP	1834516-06-1		(9H-fluoren-9-yl)methyl ((S)-1-(((S)-1-((S)-4-amino-1-((4-(((4-nitrophenoxy)carbonyl)oxy)methyl)phenyl)amino)-1,4-dioxobutan-2-yl)amino)-1-oxopropan-2-yl)amino)-1-oxopropan-2-yl)carbamate	N/A
24	Fmoc-Gly3-Val-Cit-PAB	2647914-09-6		(9H-fluoren-9-yl)methyl ((6S,9S)-1-amino-6-((4-(hydroxymethyl)phenyl)carbonyl)-9-isopropyl-1,8,11,14,17-pentaoxo-2,7,10,13,16-pentaazaoctadecan-18-yl)carbamate	N/A
25	Fmoc-Gly3-Val-Cit-PAB-PNP	2647914-16-5		(9H-fluoren-9-yl)methyl ((6S,9S)-1-amino-9-isopropyl-6-((4-(((4-nitrophenoxy)carbonyl)oxy)methyl)phenyl)carbonyl)-1,8,11,14,17-pentaoxo-2,7,10,13,16-pentaazaoctadecan-18-yl)carbamate	N/A
26	Py-ds-Prp-OPFP	160580-70-1		perfluorophenyl 3-(pyridin-2-yl)disulfanyl)propanoate	N/A
27	MAL-di-EG-OPFP	1807512-47-5		perfluorophenyl 3-(2-(2-(2,5-dioxo-2,5-dihydro-1H-pyrrol-1-yl)ethoxy)ethoxy)propanoate	N/A

No	Product Name	CAS	Structure	Chemical name	Product Code
28	MAL-tri-EG-OPFP	N/A		perfluorophenyl 1-(2,5-dioxo-2,5-dihydro-1H-pyrrol-1-yl)-3-oxo-7,10,13-trioxa-4-azahexadecan-16-oate	N/A
29	MAL-tetra-EG-OPFP	1415800-42-8		perfluorophenyl 1-(2,5-dioxo-2,5-dihydro-1H-pyrrol-1-yl)-3,6,9,12-tetraoxapentadecan-15-oate	N/A
30	N3-tri-EG-OPFP	1393330-37-4		perfluorophenyl 3-(2-(2-azidoethoxy)ethoxy)propanoate	N/A
31	N3-tetra-EG-OPFP	1353012-00-6		perfluorophenyl 1-azido-3,6,9,12-tetraoxapentadecan-15-oate	N/A
32	ALD-tetra-EG-Osu	1353011-74-1		2,5-dioxopyrrolidin-1-yl 1-(4-formylphenyl)-1-oxo-5,8,11,14-tetraoxa-2-azaheptadecan-17-oate	N/A
33	ALD-di-EG-OPFP	2101206-60-2		perfluorophenyl 3-(2-(2-(4-formylbenzamido)ethoxy)ethoxy)propanoate	N/A
34	PHA-di-EG-OPFP	2101206-31-7		2,5-dioxopyrrolidin-1-yl 3-(2-(2-((1,3-dioxoisindolin-2-yl)oxy)ethoxy)ethoxy)propanoate	N/A
35	(((S)-1-(((4-((S)-2-((S)-2-(6-(2,5-dioxo-2,5-dihydro-1H-pyrrol-1-yl)hexanamido)-3-methylbutanamido)propanamido)benzyl)oxy)carbonyl)pyrrolidin-2-yl)methyl)(2-(methylsulfonyl)ethyl)carbamic acid	N/A		(((S)-1-(((4-((S)-2-((S)-2-(6-(2,5-dioxo-2,5-dihydro-1H-pyrrol-1-yl)hexanamido)-3-methylbutanamido)propanamido)benzyl)oxy)carbonyl)pyrrolidin-2-yl)methyl)(2-(methylsulfonyl)ethyl)carbamic acid	N/A
36	b-D-Glucopyranosiduronic acid	1353003-35-6		allyl (2S,3S,4S,5R,6S)-3,4,5-tris(((allyloxy)carbonyl)oxy)-6-(4-(hydroxymethyl)-2-nitrophenoxy)tetrahydro-2H-pyran-2-carboxylate	N/A

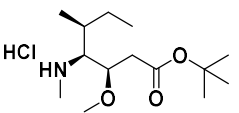
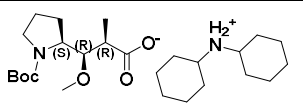
No	Product Name	CAS	Structure	Chemical name	Product Code
37	MAC glucuronide linker-1	2222981-71-5		(2S,3R,4S,5S,6S)-2-(2-(2-(((9H-fluoren-9-yl)methoxy)carbonyl)(methylamino)acetamido)-4-(((2-(methylsulfonyl)ethyl)carbamoyl)oxy)methyl)phenoxy)-6-(methoxycarbonyl)tetrahydro-2H-pyran-3,4,5-triyl triacetate	N/A
38	MAC glucuronide linker-2	229977-57-5		(2S,3S,4R,5S,6S)-2-(2-amino-4-(hydroxymethyl)benzyl)-6-(methoxycarbonyl)tetrahydro-2H-pyran-3,4,5-triyl triacetate	N/A
39	Cyclooctyne-O-NHS ester	1425803-45-7		2,5-dioxopyrrolidin-1-yl 2-(cyclooct-2-yn-1-yloxy)acetate	N/A
40	1,4,7,10-Tetraazacyclododecane-1,4,7-triacetic acid	1006711-90-5		2,2',2''-(10-(2-((2-(2,5-dioxo-2,5-dihydro-1H-pyrrol-1-yl)ethyl)amino)-2-oxoethyl)-1,4,7,10-tetraazacyclododecane-1,4,7-triyl)triacetic acid	N/A
41	DBCO-NHS ester	N/A		2,2',2''-(10-(2-((2,5-dioxopyrrolidin-1-yl)oxy)-2-oxoethyl)-1,4,7,10-tetraazacyclododecane-1,4,7-triyl)triacetic acid	N/A
42	MC-Val-Ala-PAB-PNP	1639939-40-4		4-((S)-2-((S)-2-(6-(2,5-dioxo-2,5-dihydro-1H-pyrrol-1-yl)hexanamido)-3-methylbutanamido)propanamido)benzyl (4-nitrophenyl)carbonate	N/A
43	(S)-2-((S)-2-(3-(2-(2-azidoethoxy)ethoxy)propanamido)-3-methylbutanamido)-N-(4-(hydroxymethyl)phenyl)-5-ureidopentanamide	N/A		(S)-2-((S)-2-(3-(2-(2-azidoethoxy)ethoxy)propanamido)-3-methylbutanamido)-N-(4-(hydroxymethyl)phenyl)-5-ureidopentanamide	N/A

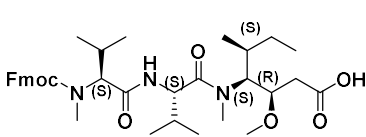
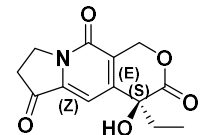
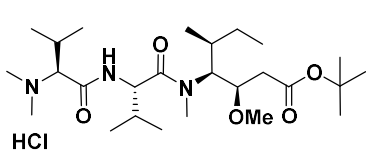
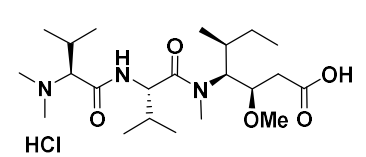
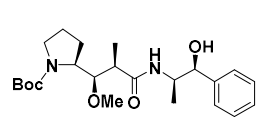
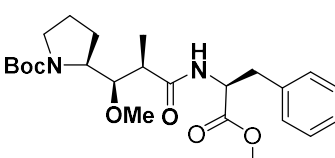
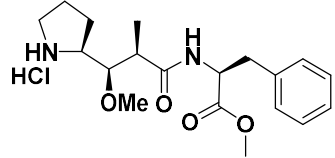
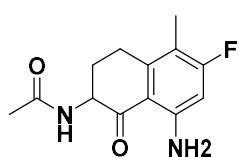
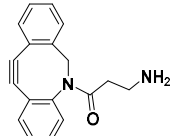
3.3. Payload-linker

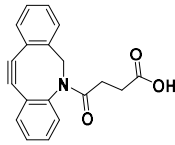
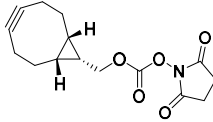
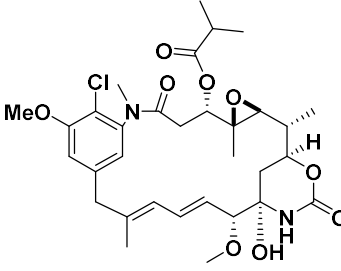
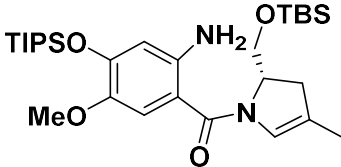
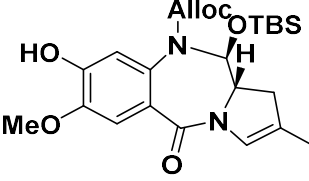
No	Product Name	CAS	Structure	Chemical name	Product Code
1	MC-VC-PAB-MMAE	646502-53-6		4-((S)-2-((S)-2-(6-(2,5-dioxo-2,5-dihydro-1H-pyrrol-1-yl)hexanamido)-3-methylbutanamido)-5-ureidopentanamido)benzyl ((S)-1-(((S)-1-(((3R,4S,5S)-1-((S)-2-((1R,2R)-3-(((1S,2R)-1-hydroxy-1-phenylpropan-2-yl)amino)-1-methoxy-2-methyl-3-oxopropyl)pyrrolidin-1-yl)-3-methoxy-5-methyl-1-oxoheptan-4-yl)(methyl)amino)-3-methyl-1-oxobutan-2-yl)amino)-3-methyl-1-oxobutan-2-yl)(methyl)carbamate	118487
2	VC-PAB-MMAE	644981-35-1		4-((S)-2-((S)-2-amino-3-methylbutanamido)-5-ureidopentanamido)benzyl ((S)-1-(((S)-1-(((3R,4S,5S)-1-((S)-2-((1R,2R)-3-(((1S,2R)-1-hydroxy-1-phenylpropan-2-yl)amino)-1-methoxy-2-methyl-3-oxopropyl)pyrrolidin-1-yl)-3-methoxy-5-methyl-1-oxoheptan-4-yl)(methyl)amino)-3-methyl-1-oxobutan-2-yl)amino)-3-methyl-1-oxobutan-2-yl)(methyl)carbamate	125085
3	MC-MMAF	863971-19-1		((2R,3R)-3-((S)-1-(((3R,4S,5S)-4-((S)-2-((S)-2-(6-(2,5-dioxo-2,5-dihydro-1H-pyrrol-1-yl)-N-methylhexanamido)-3-methylbutanamido)-N,3-dimethylbutanamido)-3-methoxy-5-methylheptanoyl)pyrrolidin-2-yl)-3-methoxy-2-29methylpropanoyl)-L-phenylalanine	N/A
4	MC-GGFG-DXD	1599440-13-7		N-((S)-10-benzyl-1-(((1S,9S)-9-ethyl-5-fluoro-9-hydroxy-4-methyl-10,13-dioxo-2,3,9,10,13,15-hexahydro-1H,12H-benzo[de]pyrano[3',4':6,7]indolizino[1,2-b]quinolin-1-yl)amino)-1,6,9,12,15-pentaoxo-3-oxa-5,8,11,14-tetraazahexadecan-16-yl)-6-(2,5-dioxo-2,5-dihydro-1H-pyrrol-1-yl)hexanamide	128831

No	Product Name	CAS	Structure	Chemical name	Product Code
5	CL2A-SN38	1279680-68-0		CL2A-SN-38	N/A
6	Sulfo-SPDB-DM4	1626359-59-8		4-((5-(((S)-1-(((14S,16S,32S,33S,2R,4S,10E,12E,14R)-86-chloro-14-hydroxy-85,14-dimethoxy-33,2,7,10-tetramethyl-12,6-dioxo-7-aza-1(6,4)-oxazinana-3(2,3)-oxirana-8(1,3)-benzenacyclotetradecaphane-10,12-dien-4-yl)oxy)-1-oxopropan-2-yl)(methyl)amino)-2-methyl-5-oxopentan-2-yl)disulfanyl)-1-((2,5-dioxopyrrolidin-1-yl)oxy)-1-oxobutane-2-sulfonic acid	N/A
7	VA-PAB-PBD	/		allyl (11S,11aS)-8-((5-(((11S,11aS)-10-(((4-((S)-2-((S)-2-((allyloxy)carbonyl)amino)-3-methylbutanamido)propanamido)benzyl)oxy)carbonyl)-11-hydroxy-7-methoxy-2-methyl-5-oxo-5,10,11,11a-tetrahydro-1H-benzo[e]pyrrolo[1,2-a][1,4]diazepin-8-yl)oxy)pentyl)oxy)-11-hydroxy-7-methoxy-2-methyl-5-oxo-11,11a-dihydro-1H-benzo[e]pyrrolo[1,2-a][1,4]diazepine-10(5H)-carboxylate	128353

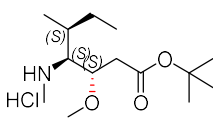
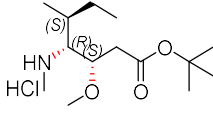
3.4. Building Blocks

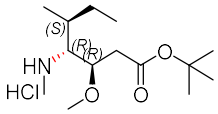
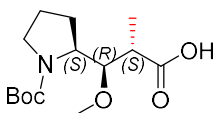
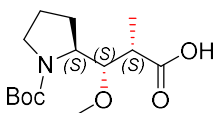
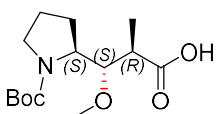
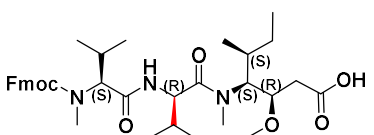
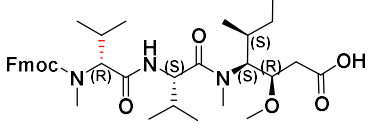
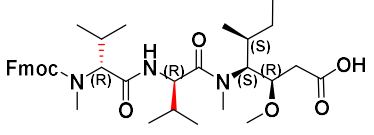
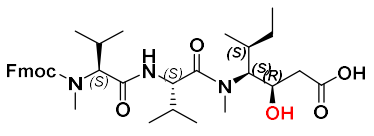
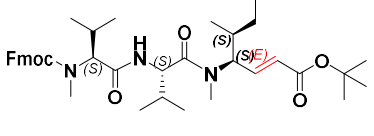
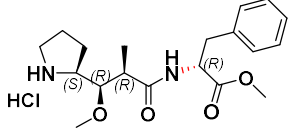
No	Product Name	CAS	Structure	Chemical name	Product Code
1	Dil.HCl	120205-48-3		(3R,4S,5S)-tert-butyl 3-Methoxy-5-Methyl-4-(Methylamino)heptanoate hydrochloride	115956
2	Boc-Dap DCHA	1369427-40-6		N-Boc-Dolaproline DCHA	119990

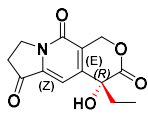
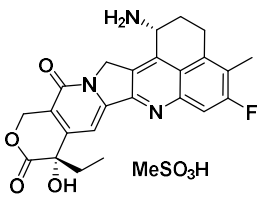
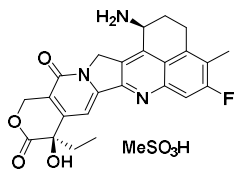
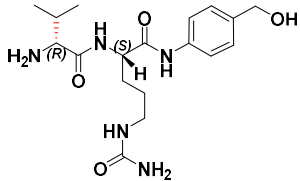
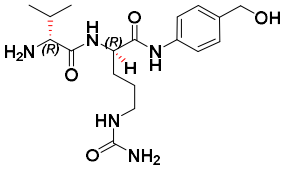
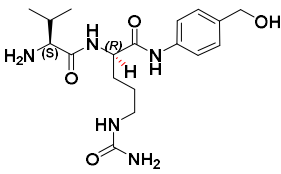
No	Product Name	CAS	Structure	Chemical name	Product Code
3	Fmoc-3vvd-OH	863971-44-2		(5S,8S,11S,12R)-11-((S)-sec-butyl)-1-(9H-fluoren-9-yl)-5,8-diisopropyl-12-methoxy-4,10-dimethyl-3,6,9-trioxo-2-oxa-4,7,10-triazatetradecan-14-oic acid	123187
4	Irinotecan Intermediates (94-5)	110351-94-5		(S)-4-ethyl-4-hydroxy-7,8-dihydro-1H-pyrano[3,4-f]indolizine-3,6,10(4H)-trione	127705
5	Dov-Val-Dil-OtBu	120205-53-0		tert-butyl (3R,4S,5S)-4-((S)-2-((S)-2-(dimethylamino)-3-methylbutanamido)-N,3-dimethylbutanamido)-3-methoxy-5-methylheptanoate hydrochloride	121659
6	DMT	2247145-33-9		(3R,4S,5S)-4-((S)-2-((S)-2-(dimethylamino)-3-methylbutanamido)-N,3-dimethylbutanamido)-3-methoxy-5-methylheptanoic acid hydrochloride	121660
7	Boc-Dap-NE	160800-65-7		tert-butyl (S)-2-((1R,2R)-3-(((1S,2R)-1-hydroxy-1-phenylpropan-2-yl)amino)-1-methoxy-2-methyl-3-oxopropyl)pyrrolidine-1-carboxylate	125387
8	Boc-Dap-Phe	161485-82-1		tert-butyl (S)-2-((1R,2R)-1-methoxy-3-(((R)-1-methoxy-1-oxo-3-phenylpropan-2-yl)amino)-2-methyl-3-oxopropyl)pyrrolidine-1-carboxylate	125915
9	Dap-Phe	N/A		methyl ((2R,3R)-3-methoxy-2-methyl-3-((S)-pyrrolidin-2-yl)propanoyl)-L-phenylalaninate	125850
10	N-(8-Amino-6-fluoro-5-methyl-1-oxo-1,2,3,4-tetrahydronaphthalen-2-yl)acetamide	182182-31-6		N-(8-amino-6-fluoro-5-methyl-1-oxo-1,2,3,4-tetrahydronaphthalen-2-yl)acetamide	133750
11	DBCO-Amine	1255942-06-3		DBCO-Amine	127804

No	Product Name	CAS	Structure	Chemical name	Product Code
12	DBCO-(CH ₂) ₂ -COOH	1353016-70-2		DBCO-(CH ₂) ₂ -COOH	133349
13	BCN-OSu	1426827-79-3		((1R,8S,9s)-bicyclo[6.1.0]non-4-yn-9-yl)methyl (2,5-dioxopyrrolidin-1-yl) carbonate	130726
14	AP-3	66584-72-3		(14S,16S,32S,33S,2R,4S,10E,12E,14R)-86-chloro-14-hydroxy-85,14-dimethoxy-33,2,7,10-tetramethyl-12,6-dioxo-7-aza-1(6,4)-oxazinana-3(2,3)-oxirana-8(1,3)-benzenacyclotetradecaphane-10,12-dien-4-yl isobutyrate	133752
15	PBD Intermediate (23-0)	1430738-23-0		(S)-(2-Amino-5-methoxy-4-((triisopropylsilyl)oxy)phenyl)(2-(((tert-butyl)dimethylsilyl)oxy)methyl)-4-methyl-2,3-dihydro-1H-pyrrol-1-yl)methanone	128342
16	PBD Intermediate (28-5)	1430738-28-5		allyl (11S,11aS)-11-((tert-butyl)dimethylsilyl)oxy)-8-hydroxy-7-methoxy-2-methyl-5-oxo-11,11a-dihydro-1H-benzo[e]pyrrolo[1,2-a][1,4]diazepine-10(5H)-carboxylate	121192

3.5. Impurity Standards

No	Product Name	CAS	Structure	Chemical name	Product Code
1	Dil.HCl (3S,4S,5S)	154633-74-6		tert-butyl (3S,4S,5S)-3-methoxy-5-methyl-4-(methylamino)heptanoate hydrochloride	118158
2	Dil.HCl (3S,4R,5S)	/		tert-butyl (3S,4R,5S)-3-methoxy-5-methyl-4-(methylamino)heptanoate hydrochloride	117886

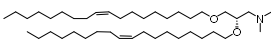
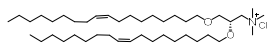
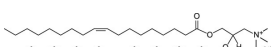
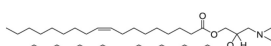
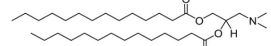
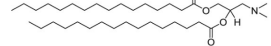
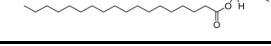

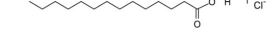
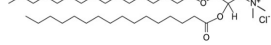
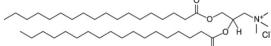
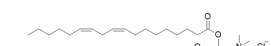
No	Product Name	CAS	Structure	Chemical name	Product Code
3	Dil.HCl (3R,4R,5S)	/		tert-butyl (3R,4R,5S)-3-methoxy-5-methyl-4-(methylamino)heptanoate hydrochloride	118159
4	Boc-Dap (2S,3R,3S)	133164-08-6		(2S,3R)-3-((S)-1-(tert-butoxycarbonyl)pyrrolidin-2-yl)-3-methoxy-2-methylpropanoic acid	128474
5	Boc-Dap (2S,3S,3S)	157967-07-2		(2S,3S)-3-((S)-1-(tert-butoxycarbonyl)pyrrolidin-2-yl)-3-methoxy-2-methylpropanoic acid	133848
6	Boc-Dap (2R,3S,3S)	157967-06-1		(2R,3S)-3-((S)-1-(tert-butoxycarbonyl)pyrrolidin-2-yl)-3-methoxy-2-methylpropanoic acid	128477
7	Fmoc-3vvd-OH (8R)	/		(5S,8R,11S,12R)-11-((S)-sec-butyl)-1-(9H-fluoren-9-yl)-5,8-diisopropyl-12-methoxy-4,10-dimethyl-3,6,9-trioxo-2-oxa-4,7,10-triazatetradecan-14-oic acid	132239
8	Fmoc-3vvd-OH (5R)	/		(5R,8S,11S,12R)-11-((S)-sec-butyl)-1-(9H-fluoren-9-yl)-5,8-diisopropyl-12-methoxy-4,10-dimethyl-3,6,9-trioxo-2-oxa-4,7,10-triazatetradecan-14-oic acid	132238
9	Fmoc-3vvd-OH (5R,8R)	/		(5R,8R,11S,12R)-11-((S)-sec-butyl)-1-(9H-fluoren-9-yl)-5,8-diisopropyl-12-methoxy-4,10-dimethyl-3,6,9-trioxo-2-oxa-4,7,10-triazatetradecan-14-oic acid	133753
10	Fmoc-3vvd-OH (12-hydroxy)	/		(5S,8S,11S,12R)-11-((S)-sec-butyl)-1-(9H-fluoren-9-yl)-12-hydroxy-5,8-diisopropyl-4,10-dimethyl-3,6,9-trioxo-2-oxa-4,7,10-triazatetradecan-14-oic acid	133754
11	Fmoc-3vvd-OH (12-E)	/		tert-butyl (5S,8S,11S,E)-11-((S)-sec-butyl)-1-(9H-fluoren-9-yl)-5,8-diisopropyl-4,10-dimethyl-3,6,9-trioxo-2-oxa-4,7,10-triazatetradec-12-en-14-oate	133755
12	Dap-D-Phe	/		methyl ((2R,3R)-3-methoxy-2-methyl-3-((S)-pyrrolidin-2-yl)propanoyl)-D-phenylalaninate hydrochloride	133756

No	Product Name	CAS	Structure	Chemical name	Product Code
13	(R)-4-ethyl-4-hydroxy-7,8-dihydro-1H-pyrano[3,4-f]indolizine-3,6,10(4H)-trione	/		(R)-4-ethyl-4-hydroxy-7,8-dihydro-1H-pyrano[3,4-f]indolizine-3,6,10(4H)-trione	132066
14	Exatecan (1R,9S)	/		(1R,9S)-1-amino-9-ethyl-5-fluoro-9-hydroxy-4-methyl-1,2,3,9,12,15-hexahydro-10H,13H-benzo[de]pyrano[3',4':6,7]indolizino[1,2-b]quinoline-10,13-dione methanesulfonate	130969
15	Exatecan (1S,9R)	/		(1S,9R)-1-amino-9-ethyl-5-fluoro-9-hydroxy-4-methyl-1,2,3,9,12,15-hexahydro-10H,13H-benzo[de]pyrano[3',4':6,7]indolizino[1,2-b]quinoline-10,13-dione methanesulfonate	133849
16	Val-Cit-PAB (L/D)	/		(S)-2-((R)-2-amino-3-methylbutanamido)-N-(4-(hydroxymethyl)phenyl)-5-ureidopentanamide	133850
17	Val-Cit-PAB (D/D)	/		(R)-2-((R)-2-amino-3-methylbutanamido)-N-(4-(hydroxymethyl)phenyl)-5-ureidopentanamide	133851
18	Val-Cit-PAB (D/L)	/		(R)-2-((S)-2-amino-3-methylbutanamido)-N-(4-(hydroxymethyl)phenyl)-5-ureidopentanamide	133852

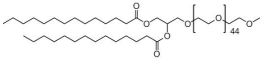
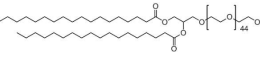
4. Excipients

4.1. Lipids

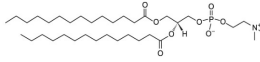
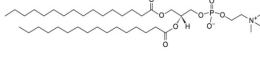
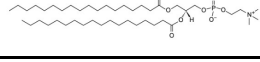
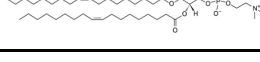
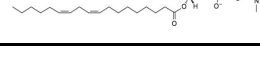
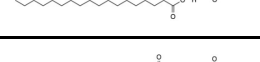
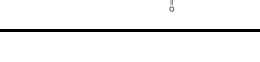
4.1.1. Cationic Ionizable Lipids

No	Product Name	CAS	Structure	Chemical name	Product Code
1	DODMA	104162-47-2		1,2-dioleoyloxy-3-dimethylaminopropane	131802
2	DOTMA	104872-42-6		1,2-di-O-octadecenyl-3-trimethylammonium propane (chloride salt)	128654
3	DOTAP	132172-61-3		1,2-dioleoyl-3-trimethylammonium-propane (chloride salt)	132467
4	DODAP	127512-29-2		1,2-dioleoyl-3-dimethylammonium-propane	132500
5	14:0 DAP	72719-84-7		1,2-dimyristoyl-3-dimethylammonium-propane	N/A
6	16:0 DAP	96326-74-8		1,2-dipalmitoyl-3-dimethylammonium-propane	N/A
7	18:0 DAP	121315-93-3		1,2-distearoyl-3-dimethylammonium-propane	N/A
8	18:2 DAP	1019000-51-1		1,2-dilinoyl-3-dimethylammonium-propane	N/A
9	14:0 TAP	197974-74-6		1,2-dimyristoyl-3-trimethylammonium-propane (chloride salt)	N/A
10	16:0 TAP	139984-36-4		1,2-dipalmitoyl-3-trimethylammonium-propane (chloride salt)	N/A
11	18:0 TAP	220609-41-6		1,2-distearoyl-3-trimethylammonium-propane (chloride salt)	N/A
12	18:2 TAP	N/A		1,2-dilinoleoyl-3-trimethylammonium-propane (chloride salt)	N/A

4.1.2. PEGylated Lipids

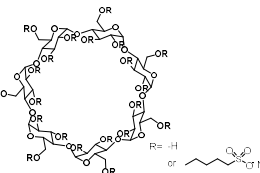
No	Product Name	CAS	Structure	Chemical name	Product Code
1	DMG-PEG2000	160743-62-4		1,2-dimyristoyl-rac-glycero-3-methoxypolyethylene glycol-2000	128211
2	DSG-PEG2000	308805-39-2		distearoyl-rac-glycerol-3-methoxypolyethylene glycol-2000	N/A

4.1.3. Phospholipids

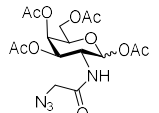
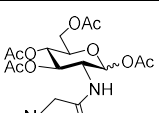
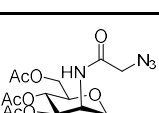
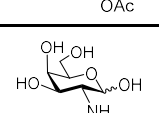
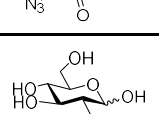
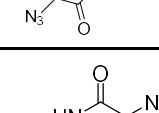
No	Product Name	CAS	Structure	Chemical name	Product Code
1	DMPC	18194-24-6		1,2-dimyristoyl-sn-glycero-3-phosphocholine	133736
2	DPPC	63-89-8		1,2-dipalmitoyl-sn-glycero-3-phosphocholine	125468
3	DSPC	816-94-4		1,2-distearoyl-sn-glycero-3-phosphocholine	128095
4	DOPC	4235-95-4		1,2-dioleoyl-sn-glycero-3-phosphocholine	133737
5	DLinPC	998-06-1		1,2-dilinoleoyl-sn-glycero-3-phosphocholine	133738
6	DSPE	1069-79-0		1,2-distearoyl-sn-glycero-3-phosphoethanolamine	132467
7	DOPE	4004-05-1		1,2-dioleoyl-sn-glycero-3-phosphoethanolamine	128653

4.2. Modified polysaccharide

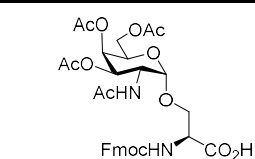
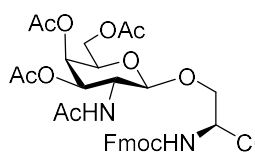
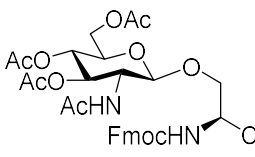
4.2.1. Cyclodextrins

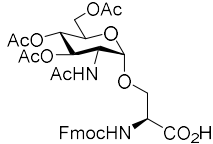
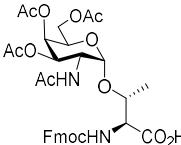
No	Product Name	CAS	Structure	Chemical name	Product Code
1	SBECD	182410-00-0		Betadex Sulfobutyl Ether Sodium	118709

4.2.2. Azido saccharide

No	Product Name	CAS	Structure	Chemical name	Product Code
1	Ac ₄ GalNAz	653600-56-7		2-[(Azidoacetyl)amino]-2-deoxy-D-galactopyranose 1,3,4,6-tetraacetate	133764
2	Ac ₄ GlcNAz	98924-81-3		2-[(Azidoacetyl)amino]-2-deoxy-D-glucopyranose 1,3,4,6-tetraacetate	133766
3	Ac ₄ ManNAz	361154-30-5		2-[(Azidoacetyl)amino]-2-deoxy-D-mannopyranose 1,3,4,6-tetraacetate	133768
4	GalNAz	869186-83-4		2-[(Azidoacetyl)amino]-2-deoxy-D-galactose	133765
5	GlcNAz	92659-90-0		2-[(Azidoacetyl)amino]-2-deoxy-D-glucose	133767
6	ManNAz	361154-23-6		2-[(Azidoacetyl)amino]-2-deoxy-D-mannose	133769

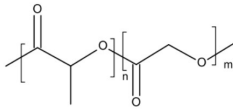
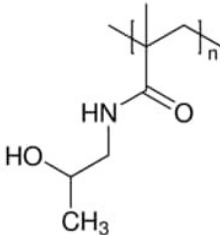
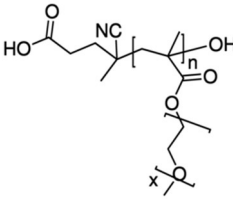
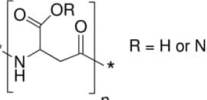
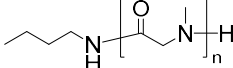
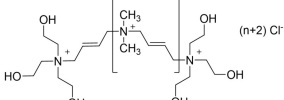
4.2.3. Saccharide amino acid conjugates

No	Product Name	CAS	Structure	Chemical name	Product Code
1	Fmoc-Ser[GalNAc(Ac) ₃ -α-D]-OH	120173-57-1		Fmoc-Ser[GalNAc(Ac) ₃ -α-D]-OH	133770
2	Fmoc-Ser[GalNAc(Ac) ₃ -β-D]-OH	1676104-71-4		Fmoc-Ser[GalNAc(Ac) ₃ -β-D]-OH	133771
3	Fmoc-Ser(Ac ₃ AcNH-β-Glc)-OH	160067-63-0		Fmoc-Ser(Ac ₃ AcNH-β-Glc)-OH	133772

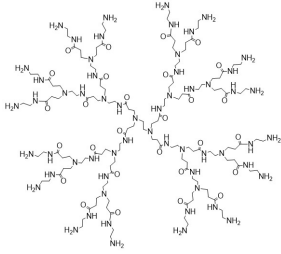
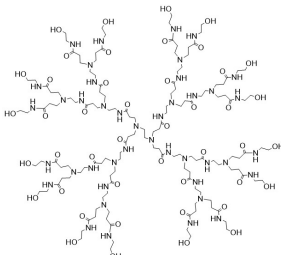
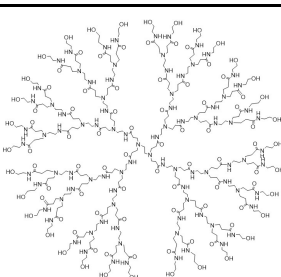
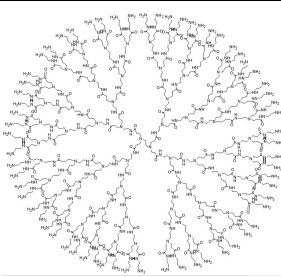
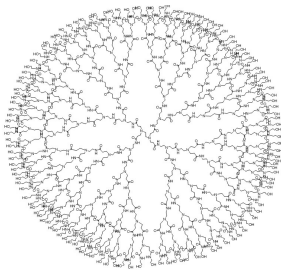
4	Fmoc-Ser(Ac ₃ AcNH- α -Glc)-OH	172325-15-4		Fmoc-Ser(Ac ₃ AcNH- α -Glc)-OH	133773
5	Fmoc-Thr(Ac ₃ AcNH- α -Gal)-OH	116783-35-8		Fmoc-Thr(Ac ₃ AcNH- α -Gal)-OH	133774

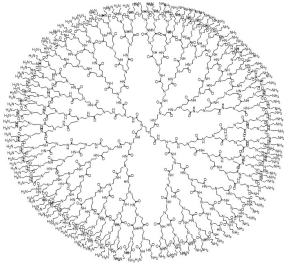
4.3. Polymers

4.3.1. Linear polymers

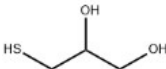
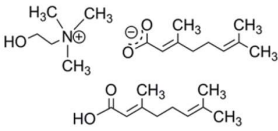
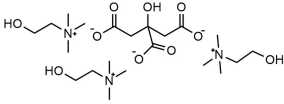
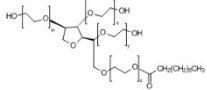
No	Product Name	CAS	Structure	Chemical name	Product Code
1	PLGA	N/A		Poly(lactic-co-glycolic acid)	N/A
2	PHPMA	N/A		Poly(N-(2-hydroxypropyl) methacrylamide)	N/A
3	POEGMA	N/A		Poly(oligoethylene glycol methacrylate)	N/A
4	PAsp	N/A		Polyaspartic acid	N/A
5	Psar	N/A		Polysarcosine	N/A
6	PolyQuat-1	75343-27-6		Polyquaternium 1	133355

4.3.2. Dendrimers

No	Product Name	CAS	Structure	Chemical name	Product Code
1	PAMAM-G2-OH	93376-66-0		PAMAM Dendrimer G2-OH	N/A
2	PAMAM-G2-NH ₂	163442-70-4		PAMAM Dendrimer G2-NH ₂	N/A
3	PAMAM-G3-OH	N/A		PAMAM Dendrimer G3-OH	N/A
4	PAMAM-G4-NH ₂	163442-67-9		PAMAM Dendrimer G4-NH ₂	N/A
5	PAMAM-G5-OH	163442-68-0		PAMAM Dendrimer G5-OH	N/A

No	Product Name	CAS	Structure	Chemical name	Product Code
6	PAMAM-G5-NH ₂	N/A		PAMAM Dendrimer G5-NH ₂	N/A

4.4. Other excipients

No	Product Name	CAS	Structure	Chemical name	Product Code
1	3-Mercapto-1,2-propanediol	96-27-5		3-Mercapto-1,2-propanediol	N/A
2	CAGE	N/A		Choline geranate deep eutectic solvent/ionic liquid	132664
3	Cho-Cit	N/A		choline citrate deep eutectic solvent/ionic liquid	132742
4	Tween 80	9005-65-6		Polysorbate 80	N/A

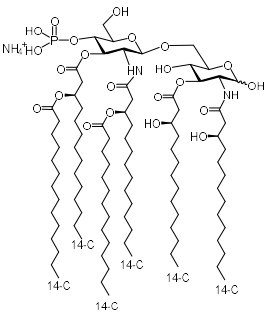
5. Adjuvants

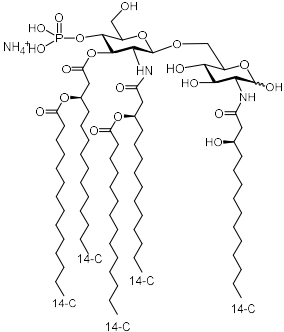
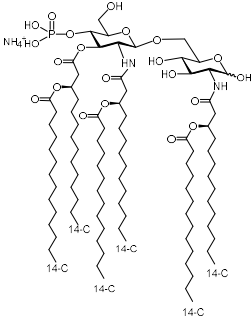
5.1. CpG Adjuvants

No	Product Name	CAS	Structure	Chemical name	Product Code
1	CpG2006	N/A	5' TCG TCG TTT TGT CGT TTT GTC GTT 3'	N/A	128391
2	CpG1018	N/A	5' TGA CTG TGA ACG TTC GAG ATG A 3'	N/A	128503
3	CpG2395	N/A	5' TCG TCG TTT TCG GCG CGC GCC G 3'	N/A	133352
4	CpG2007	N/A	5' TCG TCG TTG TCG TTT TGT CGT T 3'	N/A	133436
5	CpG1585	N/A	5' GGG GTC AAC GTT GAG GGG GG 3'	N/A	133433
6	CpG2216	N/A	5' GGG GGA CGA TCG TCG GGG GG 3'	N/A	133437
7	CpG2336	N/A	5' GGG GAC GAC GTC GTG GGG GGG 3'	N/A	133438
8	CpG1668	N/A	5' TCC ATG ACG TTC CTG ATG C 3'	N/A	133434
9	CpG1826	N/A	5' TCC ATG ACG TTC CTG ACG TT 3'	N/A	133435

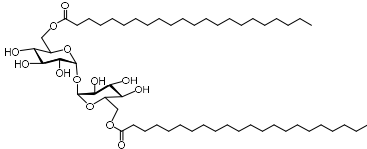
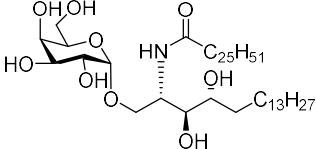
5.2. Lipopolysaccharide Adjuvants

5.2.1. Lipid A

No	Product Name	CAS	Structure	Chemical name	Product Code
1	MPLA	1246298-63-4		(2R,3R,4R,5S,6R)-2-(((2R,3S,4R,5R)-3,6-dihydroxy-5-((R)-3-hydroxytetradecanoyloxy)tetrahydro-2H-pyran-2-yl)methoxy)-6-(hydroxymethyl)-5-(phosphonoxy)-3-((R)-3-(tetradecanoyloxy)tetradecanamide)tetrahydro-2H-pyran-4-yl (R)-3-(tetradecanoyloxy) tetradecanoate, ammonium salt	133778

No	Product Name	CAS	Structure	Chemical name	Product Code
2	3D-MPLA	1699735-79-9		(2R,3S,4R,5R,6R)-2-(hydroxymethyl)-3-(phosphonooxy)-5-((R)-3-(tetradecanoyloxy)tetradecanamido)-6-(((2R,3S,4R,5R)-3,4,6-trihydroxy-5-((R)-3-hydroxytetradecanamido)tetrahydro-2H-pyran-2-yl)methoxy)tetrahydro-2H-pyran-4-yl (R)-3-(tetradecanoyloxy)tetradecanoate, ammonium salt	133779
3	3D(6-acyl)-MPLA	252042-59-4		[(2R,3S,4R,5R,6R)-2-(hydroxymethyl)-3-phosphonooxy-5-[[[(3R)-3-tetradecanoyloxytetradecanoyl]amino]-6-[(2R,3S,4R,5R)-2,3,4-trihydroxy-6-oxo-5-[[[(3R)-3-tetradecanoyloxytetradecanoyl]amino]hexoxy]oxan-4-yl]] (3R)-3-tetradecanoyloxytetradecanoate	133780

5.2.2. Others

No	Product Name	CAS	Structure	Chemical name	Product Code
1	22:0 Trehalose	66758-35-8		D-(+)-trehalose 6,6'-dibehenate	133781
2	α -GalCer	158021-47-7		α -Galactosylceramide	133782

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