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эл.почта: hen@nt-rt.ru || сайт: https://hongene.nt-rt.ru

Linkers play a vital role in oligo synthesis, specifically in two main applications:

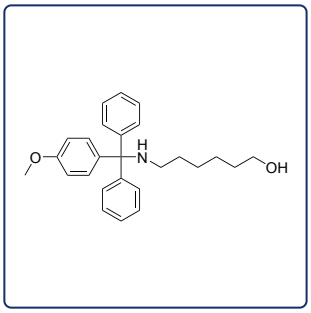
Solid Phase Attachment: During oligonucleotide synthesis, a linker molecule covalently attaches the growing oligonucleotide chain to a solid support. This solid support is typically a controlled-pore glass (CPG) bead. The linker offers a stable bond to the solid phase, allowing for the stepwise addition of nucleotides to create the desired oligonucleotide sequence. After synthesis is complete, the linker is cleaved under specific conditions, releasing the purified oligonucleotide from the solid support.

Bioconjugation: Linkers can also be incorporated at either the 5' or 3' terminus of the oligonucleotide to facilitate conjugation with various biomolecules. These biomolecules can include fluorophores, quenchers, antibodies, nanoparticles, or other functional groups. Bioconjugation allows researchers to attach functionalities to the oligonucleotide, enabling diverse applications such as:
• Fluorescence in situ hybridization (FISH) for cellular imaging
• Detection of specific nucleic acid sequences
• Immunoassays
• Drug delivery

There are various types of linkers available for oligo synthesis, each with unique properties and functionalities. Some common linker types include:

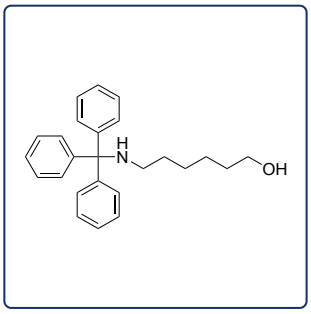
• Cleavable Linkers: These linkers are designed to be cleaved from the solid support under specific conditions, such as exposure to acid or base. This allows for the release of the purified oligonucleotide.
• Non-Cleavable Linkers: These linkers form a permanent bond with the solid support. While the oligonucleotide remains tethered to the solid phase, non-cleavable linkers are useful for applications like microarrays where the oligos stay attached to the surface.
• Biotinylated Linkers: These linkers contain biotin, a small molecule that can bind to streptavidin with high affinity. This property allows for easy purification of the oligonucleotide using streptavidin-coated magnetic beads.
• Fluorescent Linkers: These linkers incorporate a fluorescent moiety, enabling the direct detection of the labeled oligonucleotide.

The choice of linker in oligo synthesis depends on the desired application and the downstream processes involved.



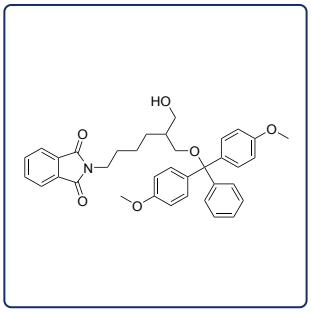
6-MMT-NH-Hexanol

Catalog No.: ON-093
Molecular Formula:
$C_{26}H_{31}NO_2$



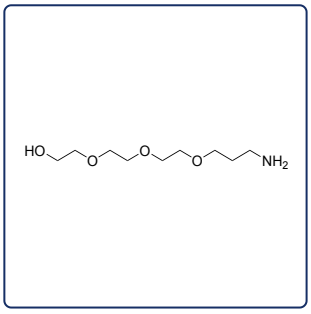
N6-Tr-6-amino-hexanol

Catalog No.: ON-152
Molecular Formula:
$C_{25}H_{29}NO$



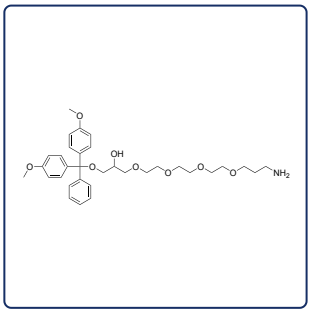
DMT-hydroxymethyl-hexyl-phthalimide

Catalog No.: ON-130
Molecular Formula:
$C_{36}H_{37}NO_6$



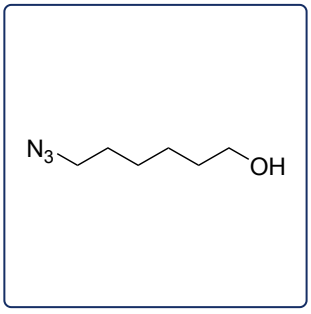
TEG linker

Catalog No.: ON-153
Molecular Formula:
$C_{36}H_{37}NO_6$



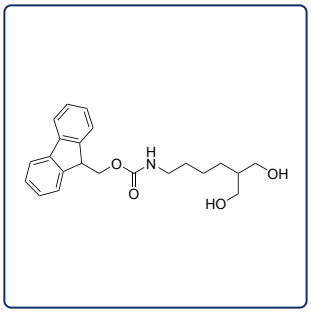
TEG Linker2

Catalog No.: ON-154
Molecular Formula:
$C_{33}H_{45}NO_8$



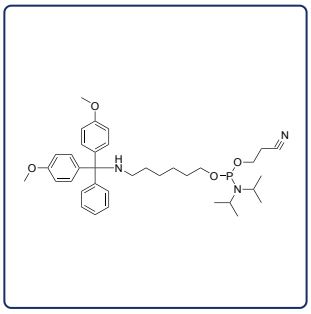
6-N3-1-hexanol

Catalog No.: ON-155
Molecular Formula:
$C_6H_{13}N_3O$
CAS No.:146292-90-2



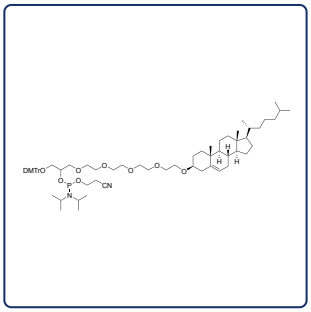
6-amino(Fmoc)-2-hydroxymethylhexan-1-ol

Catalog No.: ON-156
Molecular Formula:
$C_{22}H_{27}NO_4$



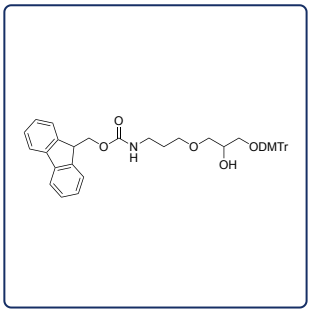
DMT-Hexylamine-linker Phosphoramidite

Catalog No.: ON-214
Molecular Formula:
$C_{36}H_{50}N_3O_4P$



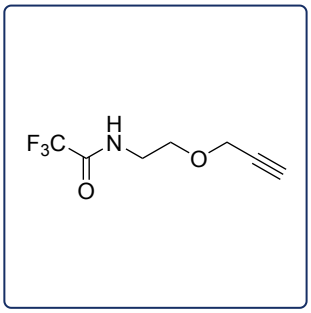
1-O-DMTr-Glycerol-TEG-Cholesterol-2-CE-Phosphoramidite

Catalog No.: OP-065
Molecular Formula:
$C_{68}H_{103}N_2O_{10}P$



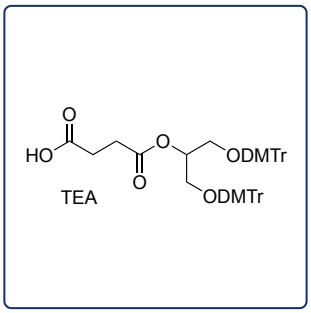
Fmoc-aminopropyloxy-3-DMTr-glycerol

Catalog No.: ON-224
Molecular Formula:
$C_{42}H_{43}NO_7$



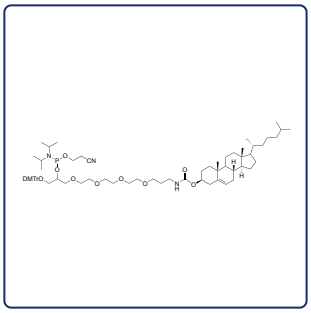
TFA-EO Linker

Catalog No.: ON-283
Molecular Formula:
$C_7H_8F_3NO_2$



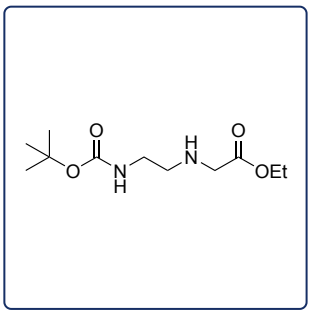
1, 3-Di-DMT Glycerol succinate, TEA salt

Catalog No.: ON-267
Molecular Formula:
$C_{49}H_{48}O_{10}$



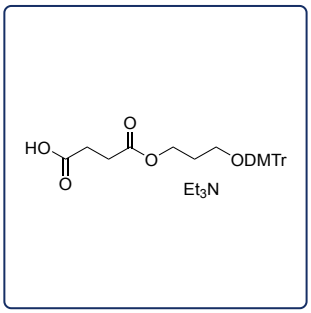
DMTr-Cholesteryl-TEG Phosphoramidite (plant source)

Remarks: Plant Source
Catalog No.: OP-020
Molecular Formula:
$C_{70}H_{106}N_3O_{11}P$



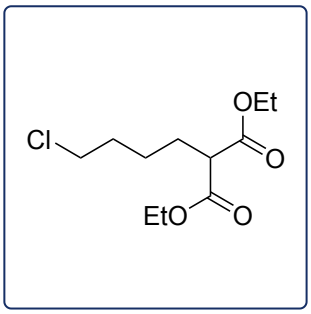
N-(Boc-aminoethyl)-Gly-oEt

Catalog No.: ON-371
Molecular Formula:
$C_{11}H_{22}N_2O_4$



4-[3-[bis(4-methoxyphenyl)-phenylmethoxy]propoxy]-4-oxobutanoic acid, triethylamine salt

Catalog No.: ON-289
Molecular Formula: $C_{28}H_{30}O_7$ (free acid)

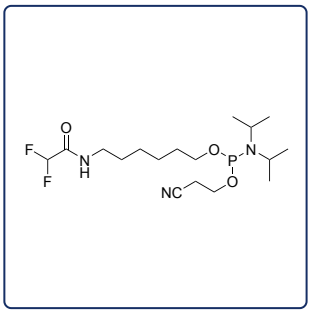


Diethyl 2-(4-chlorobutyl)malonate

Catalog No.: ON-373
Molecular Formula:
$C_{11}H_{19}ClO_4$

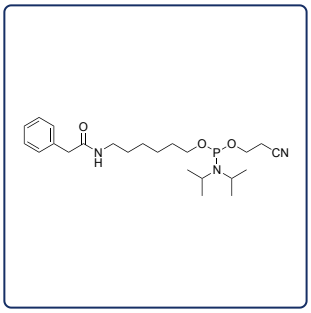
(R)-2-amino-3-(bis(4-methoxyphenyl)(phenyl)methoxy) propan-1-ol

Catalog No.: ON-374
Molecular Formula:
$C_{24}H_{27}NO_4$



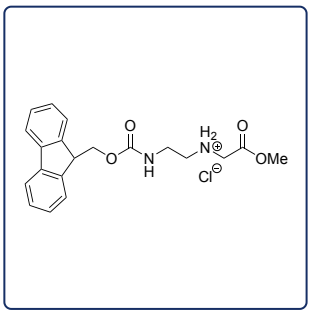
DFA-AH Linker Amidite

Catalog No.: OP-064
Molecular Formula:
$C_{17}H_{32}F_2N_3O_3P$



Phenylacetyl HA amidite linker **Catalog No.:** OP-055

Molecular Formula: $C_{23}H_{38}N_3O_3P$

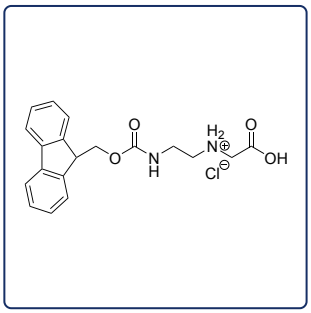


Fmoc-AEG-OMe•HCl

Catalog No.: ON-173

Molecular Formula:

$C_{20}H_{23}ClN_2O_4$



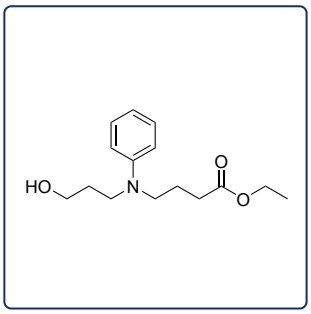
Fmoc-AEG-OH•HCl

Catalog No.: ON-172

Molecular Formula:

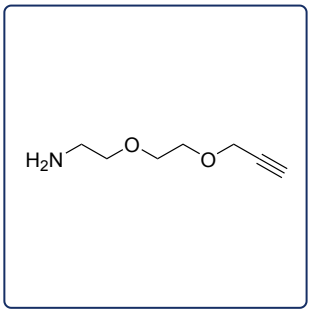
$C_{19}H_{21}ClN_2O_4$

CAS No.: 172405-44-6



Ethyl-γ-(N-(3-hydroxypropyl)anilino)-butyrate **Catalog No.:** ON-379

Molecular Formula: $C_{15}H_{23}NO_3$

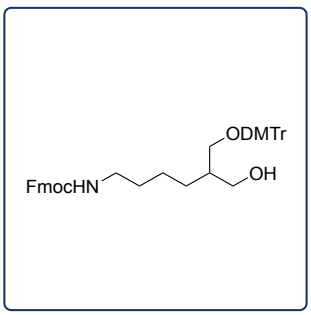


Propargyl-PEG2-NH2

Catalog No.: ON-380

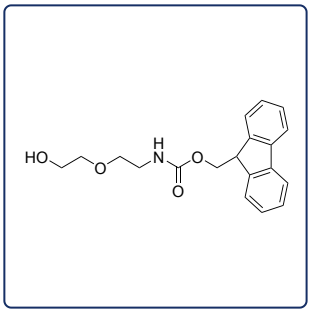
Molecular Formula:

$C_7H_{13}NO_2$



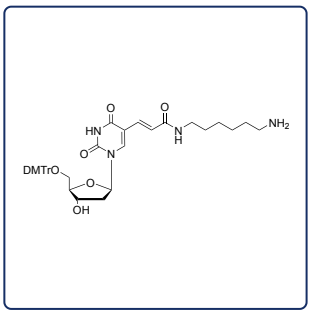
6-amino(Fmoc)-1-O-DMT-2-hydroxymethylhexan-1-ol **Catalog No.:** ON-381

Molecular Formula: $C_{43}H_{45}NO_6$



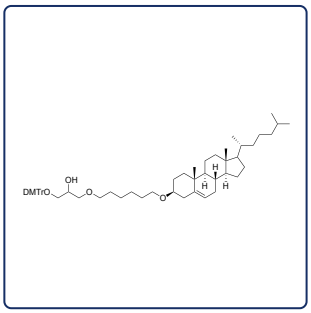
N-Fmoc-2-(2-aminoethoxy)ethanol

Catalog No.: ON-382
Molecular Formula:
$C_{19}H_{21}NO_4$



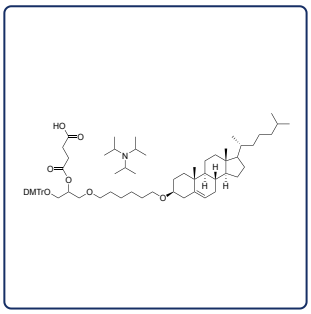
5'-DMT-dT-linker-NH2

Catalog No.: D4-034
Molecular Formula:
$C_{39}H_{46}N_4O_8$



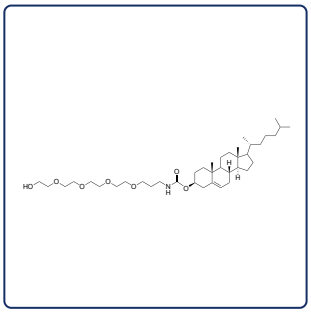
1-(4,4'-Dimethoxytrityloxy)-3-(6-(Cholest-5-en-3β-oxy)hexyloxy) propan-2-ol (plant source)

Catalog No.: ON-416
Molecular Formula:
$C_{57}H_{82}O_6$



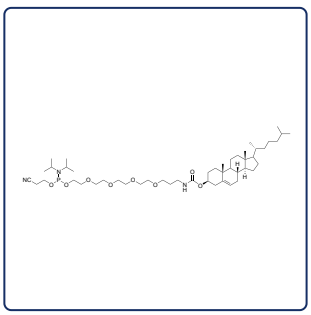
Cholesteryl succinate, TEA salt (plant source)

Remarks: Plant Source
Catalog No.: ON-417
Molecular Formula: $C_{61}H_{86}O_9$ (free acid)



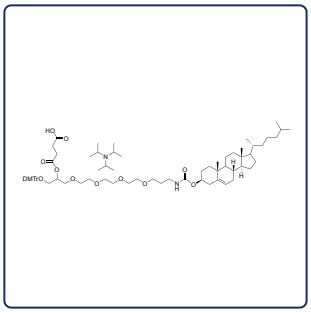
Cholesterol tetraethylene glycol (TetraEG) (plant source)

Catalog No.: ON-418
Molecular Formula:
$C_{39}H_{69}NO_7$



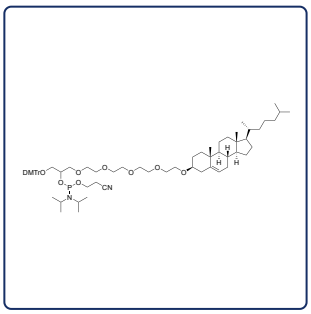
Cholesterol tetraethylene glycol (TetraEG) amidite (plant source)

Remarks: Plant Source
Catalog No.: ON-419
Molecular Formula:
$C_{48}H_{86}N_3O_8P$



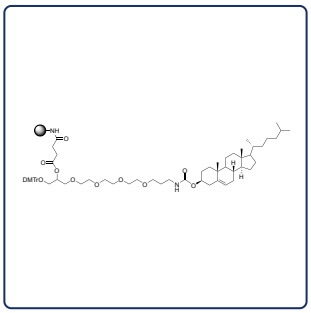
Cholesteryl-TEG-succinate (plant source)

Remarks: Plant Source
Catalog No.: ON-420
Molecular Formula: $C_{65}H_{93}NO_{13}$ (free acid)
CAS No.: 873435-28-0



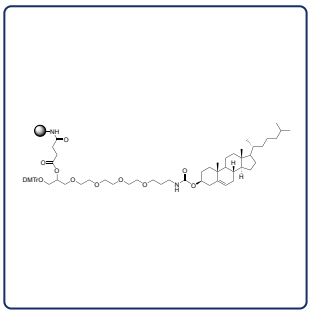
Cholesteryl amidite (plant source)

Remarks: Plant Source
Catalog No.: ON-422
Molecular Formula:
$C_{68}H_{103}N_2O_{10}P$



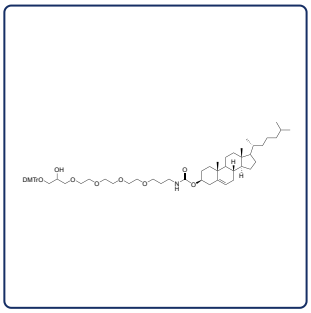
Cholesterol-TEG CPG 500Å (plant source)

Remarks: Plant Source
Catalog No.: ON-423
Molecular Formula:
$C_{65}H_{94}N_2O_{12}$



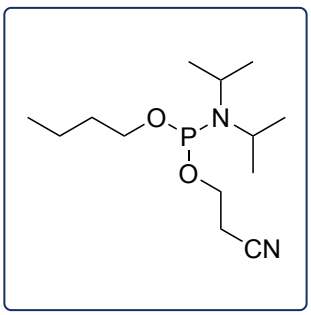
Cholesterol-TEG CPG 1000Å (plant source)

Remarks: Plant Source
Catalog No.: ON-424
Molecular Formula:
$C_{65}H_{94}N_2O_{12}$



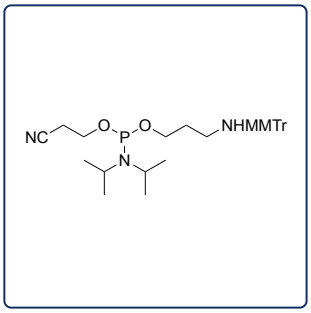
Cholesterol-TEG

Catalog No.: ON-421
Molecular Formula:
$C_{61}H_{89}NO_{10}$ **CAS No.:**
869354-69-8



n-Butyl-2-cyanoethyl-N, N-diisopropylphosphoramidite

Catalog No.: OP-168
Molecular Formula:
$C_{13}H_{27}N_2O_2P$

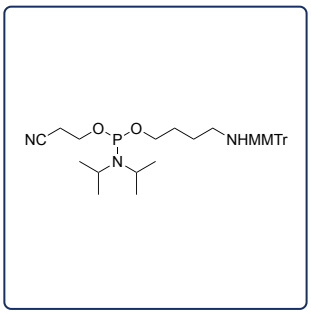


MMTr C3 linker Phosphoramidite

Catalog No.: OP-171

Molecular Formula:

$C_{32}H_{42}N_3O_3P$

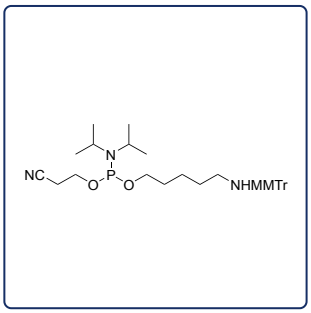


NHMMTr-C4 Phosphoramidite

Catalog No.: OP-172

Molecular Formula:

$C_{33}H_{44}N_3O_3P$

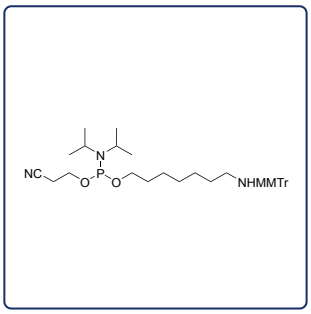


NHMMTr-C5 Phosphoramidite

Catalog No.: OP-173

Molecular Formula:

$C_{34}H_{46}N_3O_3P$

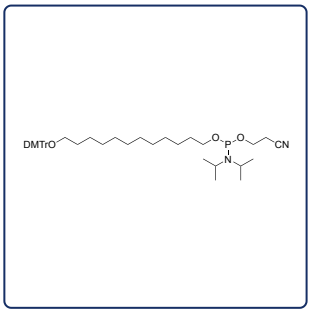


NHMMTr-C7 Phosphoramidite

Catalog No.: OP-174

Molecular Formula:

$C_{36}H_{50}N_3O_3P$



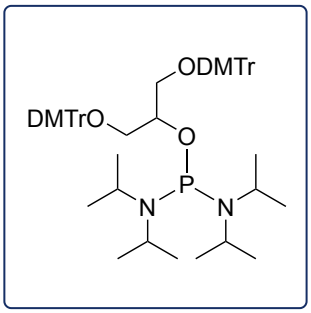
Spacer C12 Phosphoramidite

Catalog No.: OP-182

Molecular Formula:

$C_{42}H_{61}N_2O_5P$

CAS No.: 158665-27-1

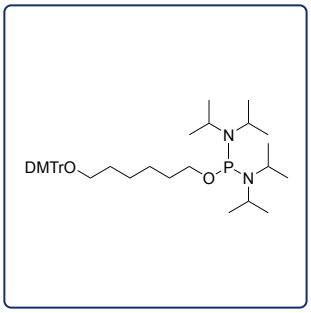


1, 3-di-O-DMTr-glycerol-bis-(diisopropylamino)-Phosphane

Catalog No.: OP-189

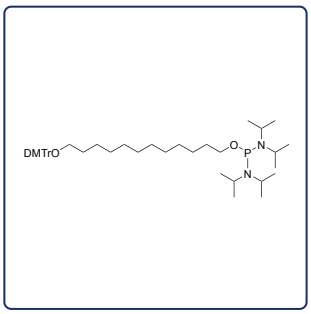
Molecular Formula:

$C_{57}H_{71}N_2O_7P$



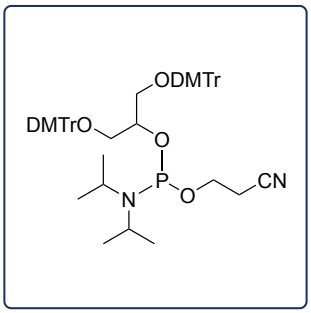
6-O-DMTr-hexane-bis-(diisopropylamino)-Phosphane **Catalog No.:** OP-190

Molecular Formula: $C_{39}H_{59}N_2O_4P$



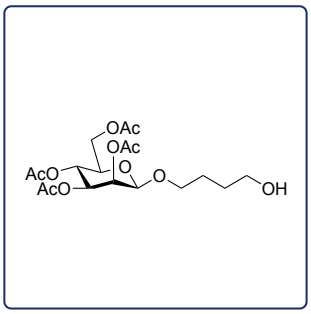
12-O-DMTr-dodecane-bis-(diisopropylamino)-Phosphane **Catalog No.:** OP-191

Molecular Formula: $C_{45}H_{71}N_2O_4P$



1, 3-di-O-DMTr-glycerol-CE-Phosphoramidite **Catalog No.:** OP-192

Molecular Formula: $C_{54}H_{61}N_2O_8P$

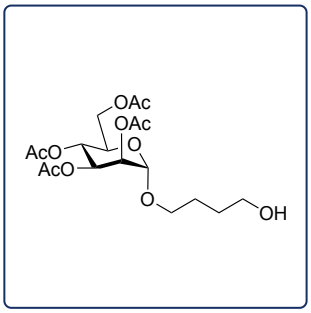


β-Mannose C4 alcohol

Catalog No.: ON-407

Molecular Formula:

$C_{18}H_{28}O_{11}$

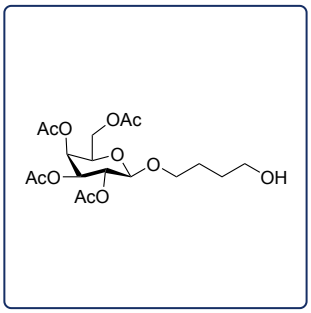


α-Mannose C4 alcohol

Catalog No.: ON-408

Molecular Formula:

$C_{18}H_{28}O_{11}$

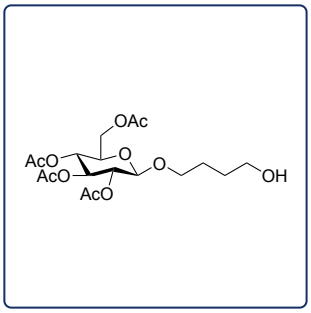


Galactose C4 alcohol

Catalog No.: ON-402

Molecular Formula:

$C_{18}H_{28}O_{11}$

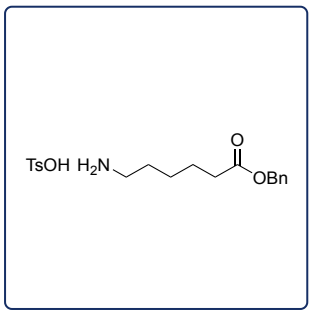


Glucose C4 alcohol

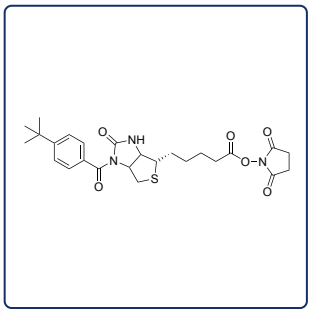
Catalog No.: ON-400

Molecular Formula:

$C_{18}H_{28}O_{11}$



benzyl 6-aminohexanoate Catalog No.: ON-439 Molecular Formula: $C_{20}H_{27}NO_5S$

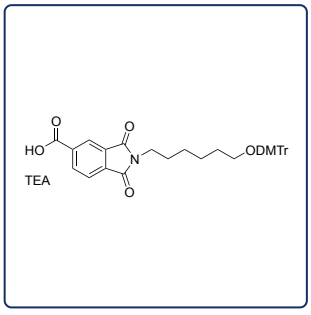


t-butylbenzoyl biotin-NHS ester

Catalog No.: ON-783

Molecular Formula:

$C_{25}H_{31}N_3O_6S$

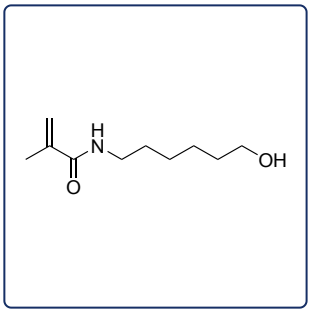


1, 3-dioxo-2-(6-dimethoxytrityloxyhex-1-yl)isoindole-5-carboxylic acid, TEA salt

Catalog No.: ON-538

Molecular Formula:

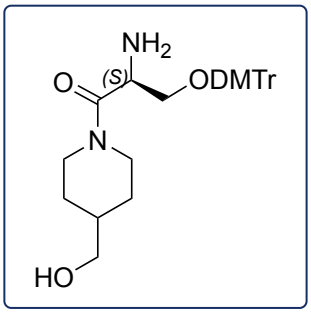
$C_{36}H_{35}NO_7$



Methacrylate C6 Catalog

No.: ON-440 **Molecular**

Formula: $C_{10}H_{19}NO_2$

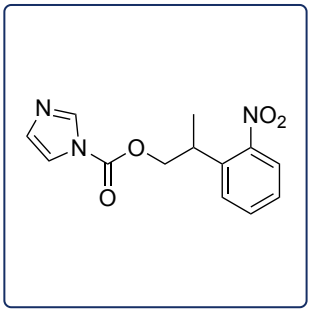


(S)-2-amino-3-(bis(4-methoxyphenyl) (phenyl)methoxy)-1-(4-(hydroxymethyl)piperidin-1-yl)propan-1-one

Catalog No.: ON-441

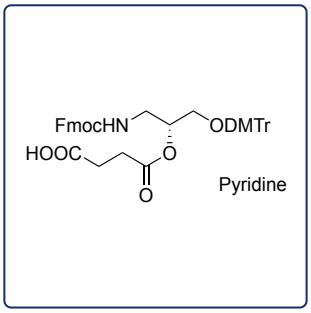
Molecular Formula:

$C_{30}H_{36}N_2O_5$



2-(2-nitrophenyl)propyl imidazole-1-carboxylate Catalog No.: ON-442

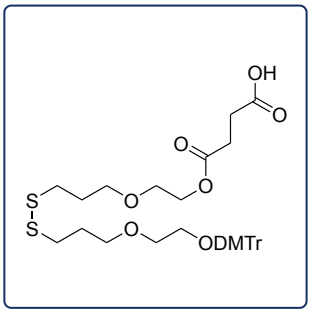
Molecular Formula: $C_{13}H_{13}N_3O_4$



(R)-4-((1-((((9H-fluoren-9-yl)methoxy)carbonyl)amino)-3-(bis(4-methoxyphenyl)(phenyl)methoxy)propan-2-yl)oxy)-4-oxobutanoic acid, Pyridine salt

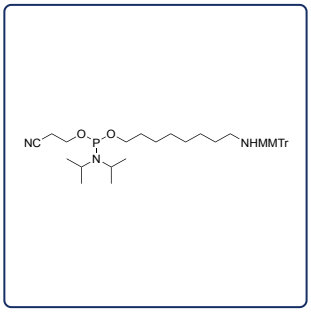
Catalog No.: ON-445

Molecular Formula: $C_{43}H_{41}NO_9$



3'-thio modifier 6 S-S-DMTr-linker-succinate, TEA salt Catalog No.: ON-449

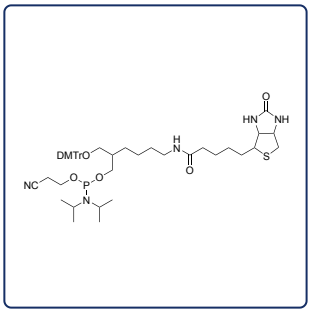
Molecular Formula: $C_{35}H_{44}O_9S_2$ (free acid)



NHMMTr-C8 Phosphoramidite Catalog No.:

OP-175

Molecular Formula: $C_{37}H_{52}N_3O_3P$

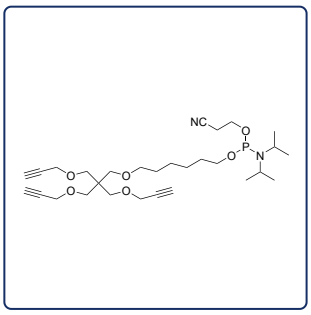


DMTr-hydroxymethyl hexyl-Biotin Phosphoramidite

Catalog No.: OP-183

Molecular Formula:

$C_{47}H_{66}N_5O_7PS$

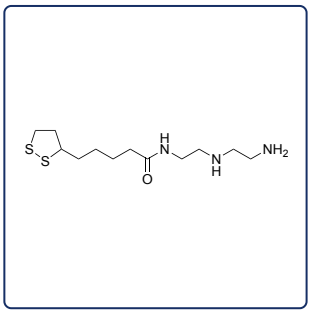


2-cyanoethyl (6-(3-(prop-2-yn-1-yloxy)-2,2-bis((prop-2-yn-1-yloxy)methyl)propoxy)hexyl)

Catalog No.: ON-448

Molecular Formula:

$C_{29}H_{47}N_2O_6P$



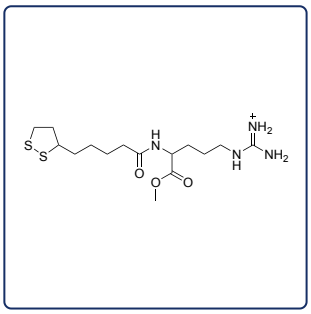
N-[2-[(2-Aminoethyl)amino]ethyl]-1,2-dithiolane-3-pentanamide

Catalog No.: ON-503

Molecular Formula:

$C_{12}H_{25}N_3OS_2$ **CAS No.:**

2855082-29-8



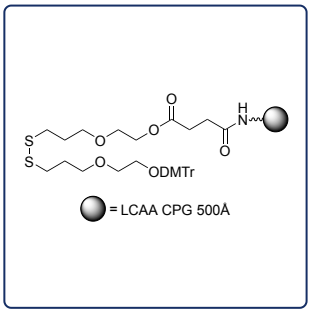
N2-[5-(1,2-Dithiolan-3-yl)-1-oxopentyl]-L-arginine methyl ester

Catalog No.: ON-504

Molecular Formula:

$C_{15}H_{29}N_4O_3S_2$+ **CAS No.:**

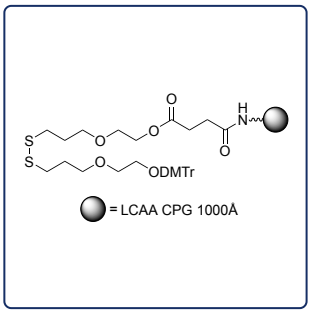
1422468-18-5



3'-thio modifier 6 S-S-DMTr-linker CPG (500Å)

Catalog No.: ON-528

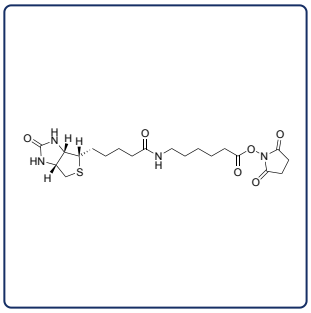
Molecular Formula: /



3'-thio modifier 6 S-S-DMTr-linker CPG (1000Å)

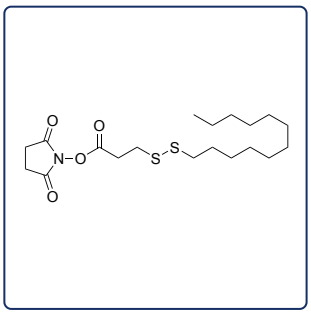
Catalog No.:

ON-526 **Molecular Formula:** /



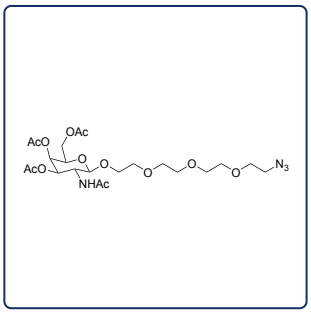
Biotin-LC-NHS Ester

Catalog No.: ON-529
Molecular Formula:
$C_{20}H_{30}N_4O_6S$



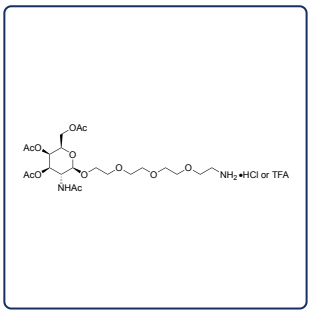
2, 5-dioxopyrrolidin-1-yl-3-(dodecyldisulfaneyl)propanoate

Catalog No.: ON-453
Molecular Formula:
$C_{19}H_{33}NO_4S_2$



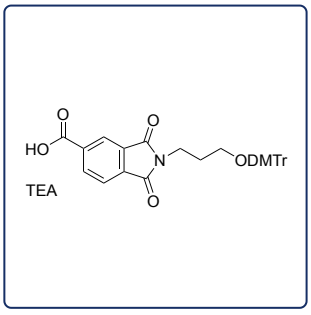
Peracetylated GalNAc PEG linker-Azide

Catalog No.: ON-491
Molecular Formula:
$C_{22}H_{36}N_4O_{12}$



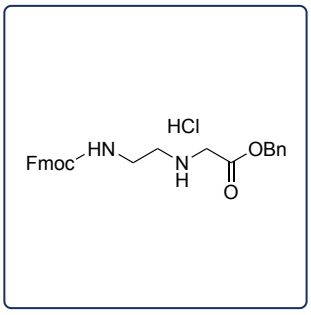
Peracetylated GalNAc PEG linker-Amino

Catalog No.: ON-530
Molecular Formula: $C_{22}H_{38}N_2O_{12}$ (free acid)



1, 3-dioxo-2-(4-dimethoxytrityloxyhex-1-yl)isoindole-5-carboxylic acid, TEA salt

Catalog No.: ON-546
Molecular Formula: $C_{33}H_{29}NO_7$ (free acid)



Benzyl N-[2-(Fmoc)aminoethyl]glycinate

Catalog No.: ON-781
Molecular Formula: $C_{26}H_{26}N_2O_4$(free base) **CAS No.:** 511534-93-3

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