



Product Specifications

Custom Oligo Synthesis, antisense oligos, RNA oligos, chimeric oligos, Fluorescent dye labeled oligos, Molecular Beacons, siRNA, phosphonates Affinity Ligands, Locked Nucleic Acids (LNA); 2'-5' linked Oligos

Thiol Modifiers

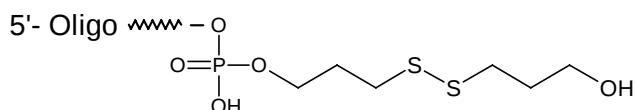
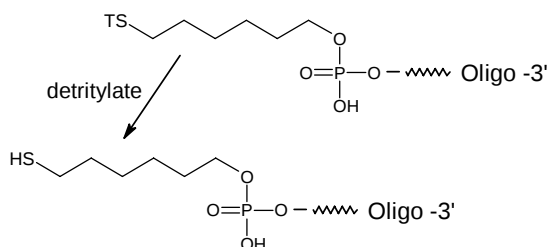
For research use only. Not for use in diagnostic procedures for clinical purposes.

Thiol Modifiers are designed for use in DNA synthesizers to functionalize the custom synthesized target oligonucleotide. The disulfide thiol modifier may be used for introducing 3'- or 5'-thiol linkages. Dithiol Phosphoramidite (DTPA) is a disulfide-containing modifier designed to functionalize synthetic DNA or RNA with multiple thiol groups and can be incorporated at any position of the oligonucleotide. Each DTPA addition leads to two thiol groups. DTPA can be used for multiple reactions with maleimides and other thiol-specific derivatives.

Other modifiers used for conjugation are amino and carboxyl. Amino-Modifiers are available with a variety of chain lengths to fit exactly the desired application. 5'-Carboxy-Modifier C10 is a unique linker designed to be added at the terminus of an oligonucleotide synthesis. It generates an activated carboxylic acid N-hydroxysuccinimide (NHS) ester suitable for immediate conjugation on the synthesis column with molecules containing a primary amine, resulting in a stable amide linkage. PC Amino-Modifier is a photocleavable C6 amino-modifier, part of our line of photocleavable (PC) modifiers.

5' Thiol-Modifier C6

[26-6419-XX]

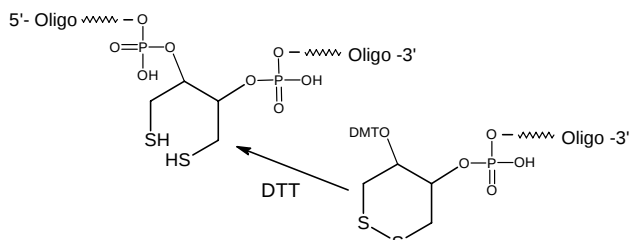
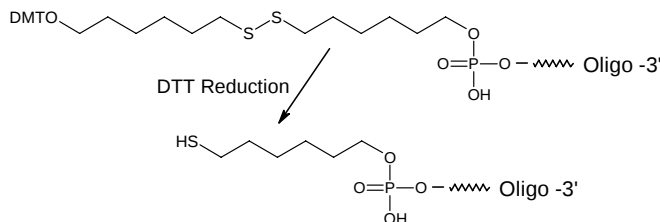


3' Thiol C3 SS

[26-6482-XX]

Thiol-Modifier C6 SS

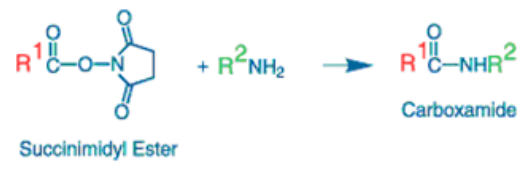
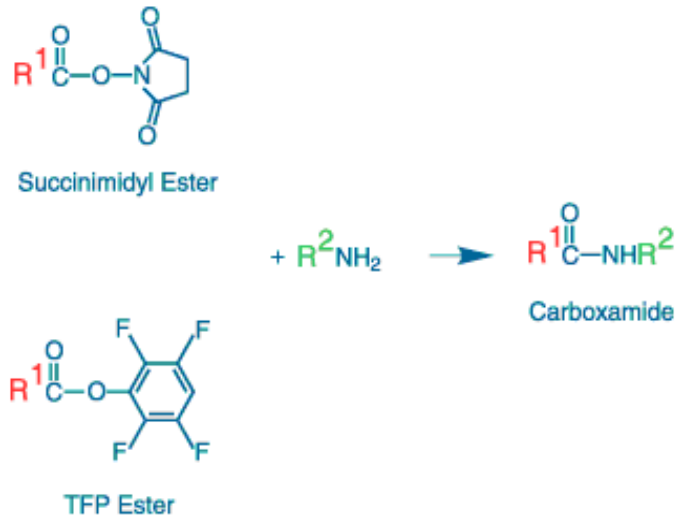
[26-6572-XX]



Dithiol SS (DTPA)

[26-6667-XX]

Reaction of a thiol with a maleimide	Reaction of a primary amine with a sulfonyl chloride
 Maleimide + $R^2SH \rightarrow$ Thioether	 Sulfonyl chloride + $R^2NH_2 \rightarrow$ Sulfonamide + HCl
R2 is the oligonucleotide labeled with thiol	R2 is the oligonucleotide labeled with primary amine

Reaction of a primary amine with a succinimidyl ester or a tetrafluorophenyl (TFP) ester.	
 Succinimidyl Ester + $R^2NH_2 \rightarrow$ Carboxamide	 Succinimidyl Ester + $R^2NH_2 \rightarrow$ Carboxamide TFP Ester
R2 is the oligonucleotide labeled with primary amine	

Ordering Information

Thiol Modifiers		
GL Catalog #	Product Description	Unit Price
26-6419-01	5' Thiol Modifier C6; 1 umol scale	\$290.00
26-6419-02	5' Thiol Modifier C6; 200 nmol scale	\$210.00
26-6419-05	5' Thiol Modifier C6; 50 nmol scale	\$210.00
26-6572-01	Thiol Modifier C6 S-S; 1 umol scale	\$290.00
26-6572-02	Thiol Modifier C6 S-S; 200 nmol scale	\$210.00
26-6572-05	Thiol Modifier C6 S-S; 50 nmol scale	\$210.00
26-6667-01	Dithiol (DTPA); 1umol scale	\$500.00
26-6667-02	Dithiol (DTPA); 200 nmol scale	\$410.00
26-6667-05	Dithiol (DTPA); 50 nmol scale	\$410.00
26-6482-01	3' Thiol Modifier C3-S-S; 1 umol scale	\$290.00
26-6482-02	3' Thiol Modifier C3-S-S; 200 nmol scale	\$210.00
26-6482-05	3' Thiol Modifier C3-S-S; 50 nmol scale	\$210.00

Related Products Ordering Information

Locked Nucleic Acid Oligo Synthesis						
Product	Catalog No.	50 nmol scale (XX=05)	200 nmol scale (XX=02)	1 µmol scale (XX=01)	10 µmol scale (XX=10)	15 µmol scale (XX=15)
Locked Nucleic Acid (LNA)*	26-6413-XX	190.00	190.00	250.00	2000.00	2500.00

Please inquire about volume discounts

Related Products Ordering Information

Modification Oligo Synthesis						
Product	Catalog No.	50 nmol scale (XX=05)	200 nmol scale (XX=02)	1 µmol scale (XX=01)	10 µmol scale (XX=10)	15 µmol scale (XX=15)
Phosphorothioates	26-6401-XX	3.50	4.25	6.50	50.00	65.00
inosine	26-6403-XX	25.00	25.00	55.00	440.00	660.00
Propyne dC or propyne dU*	26-6408-XX	130.00	130.00	200.00	1600.00	2000.00
Propyne dC or propyne dC	26-6501-XX	130.00	130.00	200.00	1600.00	2000.00
2'O methyl bases	27-6410-XX	14.00	14.00	20.00	170.00	250.00
2'-5' linked bases	26-6414-XX	275.00	275.00	300.00	2400.00	3000.00
5-Me-dC	26-6413-XX	75.00	75.00	125.00	825.00	1250.00
Spacer 9	26-6440-XX	100.00	100.00	140.00	840.00	1400.00
2'O-Me-5-Me-C	26-6508-XX	250.00	250.00	310.00	2500.00	2900.00
Chimeric Linkage	26-6420-XX	75.00	75.00	75.00	675.00	675.00
3' dA, dC, dG, dT (2'-5' linked)	26-649X-XX	275.00	275.00	300.00	2400.00	3000.00

Please inquire about volume discounts

Purification						
Product	Catalog No.	50 nmol scale (XX=05)	200 nmol scale (XX=02)	1 µmol scale (XX=01)	10 µmol scale (XX=10)	15 µmol scale (XX=15)
Gel Purification	26-6400-XX	75.00	75.00	150.00	1500.00	1500.00
Reverse Phase Cartridge	26-6400-XX	30.00	30.00	90.00	750.00	750.00

Prices subject to change without notice. Current prices are posted on web site.