



Product Specifications

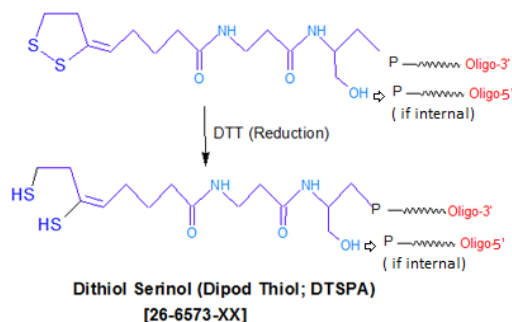
Custom Oligo Synthesis, antisense oligos, RNA oligos, chimeric oligos, Fluorescent dyes, Affinity Ligands, Spacers & Linkers, Duplex Stabilizers, Minor bases, labeled oligos, Molecular Beacons, siRNA, phosphonates Locked Nucleic Acids (LNA); 2'-5' linked Oligos

Oligo Modifications

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

Thiol SS Dipod (DTSPA)

Category	Others
Modification Code	DTSPA
Reference Catalog Number	26-6573
5 Prime	Y
3 Prime	Y
Internal	Y
Molecular Weight(mw)	412.46



Thiol SS Serinol Dipod (DTSPA) 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. This modifier was designed for optimal tethering of oligonucleotides to a gold surface but it can also be used for multiple reactions with maleimides and other thiol-specific derivatives.

See Gene Link Manual for Gold Surface Conjugation for details Gold Surface Thiol Conjugation

After synthesis, Gene Link supplies the oligo to the customer in the **oxidized (disulfide)** form. The disulfide bond can then be reduced with TCEP or dithiothreitol (DTT) to generate the fully active thiolated oligo by the customer in his/her own laboratory.

SPECIAL NOTE. Prior to use, reduce any disulfide formation using 100 mM TCEP or DTT for 30 minutes at room temperature. TCEP 0.5M solutions is available from Gene Link, Catalog Number: 40-5116-10. TCEP use is recommended for reduction as conjugation efficiency are 2-3% higher if TCEP is used.

See Gene Link thiol reduction technical sheet for details Thiol Reduction Protocol