



Product Specifications

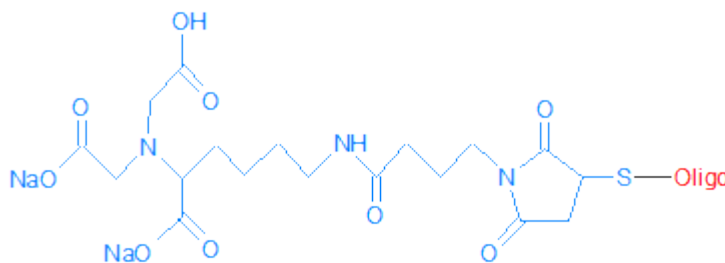
Custom Oligo Synthesis, antisense oligos, RNA oligos, chimeric oligos, Fluorescent dyes, Affinity Ligands, Spacers & Linkers, Duplex Stabilizers, Minor bases, labeled oligos, Molecular Beacons, siRNA, phosphonates Locked Nucleic Acids (LNA); 2'-5' linked Oligos

Oligo Modifications

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

NTA Mono

Category	Affinity Ligands
Modification Code	NTA
Reference Catalog Number	26-6444
5 Prime	Y
3 Prime	Y
Internal	Y
Molecular Weight(mw)	489.38



NTA-conjugated Oligo
[26-6444-XX]

YIELD NTA modified oligos.

- ~ 2 nmol final yield for 50 nmol scale synthesis.
- ~ 6 nmol final yield for 200 nmol scale synthesis.
- ~ 20 nmol final yield for 1 umol scale synthesis.

NTA-Oligo modified with nitrilotriacetate (NTA) is a post synthesis conjugation to thiol. The thiol group can be placed at the 5' and 3' and for internal positions DTSPA can be used. The price listed is for NTA modification and does not include thiol modification, oligo synthesis and purification charges

NTA-Oligo modified with nitrilotriacetate (NTA), which has high affinity to a His-tag on recombinant protein via the complexation of Ni²⁺.

It is a novel method to prepare a DNA-protein conjugate using histidine-tag (His-tag) chemistry.

References

1. J. Shimada, T. Maruyama, T. Hosogi, J. Tominaga, N. Kamiya, M. Goto., Conjugation of DNA with protein using His-tag chemistry and its application to the aptamer-based detection system, *Biotechnol. Lett.* 30 (2008) 2001–2006.
2. J. Shimada et al DNA–enzyme conjugate that can detect thrombin. *Anal. Biochem.* 414 (2011) 103–108.