



Product Specifications

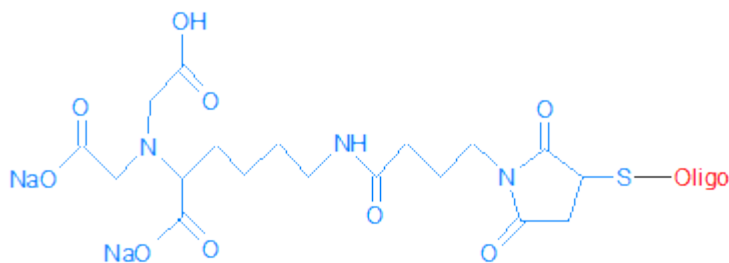
Custom Oligo Synthesis, antisense oligos, RNA oligos, chimeric oligos, Fluorescent dyes, Affinity Ligands, Spacers & Linkers, Duplex Stabilizers, Minor bases, labeled oligos, Molecular Beacons, siRNA, phosphonates Locked Nucleic Acids (LNA); 2'-5' linked Oligos

Oligo Modifications

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

NTA (Nitrilotriacetate) Oligo Conjugate

| | |
|--------------------------|------------------|
| 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]

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. 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.