

## **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.

## Convertible dA (O6-Phenyl-dl)

Category	Others	
Modification Code	O6-Phenyl-dl	0.5
Reference Catalog Number	26-6921	5' Oligo VVV-O N N N
5 Prime	Υ	
3 Prime	Υ	он
Internal	Υ	0 0 = P - 0 - \( \sqrt{0} \) Oligo 3'
Molecular Weight(mw)	830.92	O6-Phenyl-dl (Convertible dA)

Gene Link supplies Convertible modified oligos protected with oligo bound to CPG solid support or can conjugate the convertible site to user specified ligand.

O6-Phenyl-deoxyinosine (O6-Ph-dI) is classified as a convertible dA nucleotide. After incorporation into an oligo, reaction of the O6-phenyl on the inosine base with a primary amine displaces the oxygen atom, and converts the nucleotide into a N6-substituted dA. Oligos containing O6-Ph-dI modifications are useful precursors in studies requiring a base-modified dA in which the modification is a specific moiety. For example, O6-Ph-dI modified oligos have been reacted with 1,4-diaminobutane(1) in order to subsequently form a DNA molecule with active amines at the N6 position of several A positions in the oligo, for use as part of an affinity purification matrix. Oligos containing O6-Phenyl-dI modifications are also useful precursors in studies requiring cross-linking, at A position(s), between oligos, or between an oligo and an enzyme (2) See examples below of Convertible dA (O6-Phenyl-deoxy Inosine) to various amino derivatives.

See this link for Glen Research Technical Report (pdf) for Convertible bases. Convertible Bases. See this link for Glen Research Technical Report for Convertible bases. Convertible Bases.

## References

- 1. Larson, C.J.; Verdine, G.L. A High-Capacity Column for Affinity Purification of Sequence-Specific DNA Binding Proteins. *Nucleic Acids Res.* (1992), **30**: 3525.
- 2. Corn, J.E.; Berger, J.M. FASTDXL. Structure (2007), 15: 773-780.

