



## Product Specifications

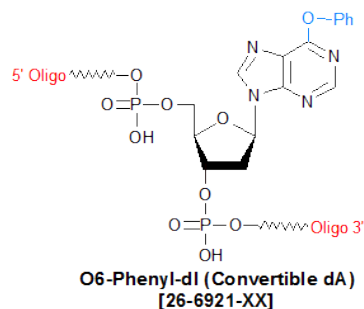
Custom Oligo Synthesis, antisense oligos, RNA oligos, chimeric oligos, Fluorescent dyes, Affinity Ligands, Spacers & Linkers, Duplex Stabilizers, Minor bases, labeled oligos, Molecular Beacons, siRNA, phosphonates Locked Nucleic Acids (LNA); 2'-5' linked Oligos

## Oligo Modifications

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

### Convertible dA (O6-Phenyl-dI)

Category	Others
Modification Code	O6-Phenyl-dI
Reference Catalog Number	26-6921
5 Prime	Y
3 Prime	Y
Internal	Y
Molecular Weight(mw)	830.92



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.

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#### 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.