

Product Datasheet

5-Propargylamino-dCTP-ATTO-647N (orb1733853)

Catalog Number	orb1733853
Category	Small Molecules
Description	5-Propargylamino-dCTP-ATTO-647N is recommended for direct enzymatic labeling of DNA/cDNA by Nick Translation. It is incorporated as substitute for its natural counterpart dCTP. The resulting Dye-labeled DNA/cDNA probes are ideally suited for fluorescence hybridization applications such as FISH or microarray-based gene expression profiling. Optimal substrate properties and thus labeling efficiency is ensured by an optimized linker attached to the C5 position of cytidine. Recommended Propargylamino-dCTP-ATTO-647N/dCTP ratio for Nick Translation: 30-50% Propargylamino-dCTP-ATTO-647N/70-50% dCTP.
Form/Appearance	solution in water; Color: blue; pH: 7.5 ± 0.5
Concentration	1.0 mM-1.1 mM
Purity	≥ 95% (HPLC)
MW	Theoretical MW: 1148.08 g/mol (free acid); Detected MW: 1147.40 g/mol (free acid)
Application notes	Spectroscopic Propertie: λ_{exc} 646 nm, λ_{em} 664 nm, ϵ 150.0 L mmol ⁻¹ cm ⁻¹ (Tris-HCl pH 7.5).
Formula	C ₅₄ H ₆₈ N ₇ O ₁₅ P ₃
SMILES	[C@@H]1(CC(OC1COP(=O)(OP(=O)(OP(=O)([O-])O)O)O)n1c(=O)nc(c(c1)C#CCNC(=O)CCCN(C(=O)c1c(C2=c3cc4c5=[N+](CCC4)CCCc5c3C(c3c2cc2c(c3)N(C(CC2C)(C)C)CC)(C)C)cccc1)C)N)O
Storage	store at -20 °C. Short term exposure (up to 1 week cumulative) to ambient temperature possible
Note	For research use only

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Expiration Date 12 months from date of receipt.

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