

Product Datasheet

Aminoallyl-dUTP-ATTO-647N (orb1733885)

Catalog Number	orb1733885
Category	Small Molecules
Description	Aminoallyl-dUTP-ATTO647N is recommended for direct enzymatic labeling of DNA/cDNA by Nick Translation. It is incorporated as substitute for its natural counterpart dTTP. 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 uridine. Recommended Aminoallyl-dUTP-ATTO647N/dTTP ratio for Nick Translation: 30-50% Aminoallyl-dUTP-ATTO647N/50% dTTP.
Form/Appearance	filtered solution (30 kDa) in 10 mM Tris-HCl; Color: blue; pH: 7.5 ± 0.5
Concentration	1.0 mM-1.1 mM
Purity	≥ 95% (HPLC)
MW	Theoretical MW: 1151.08 g/mol (free acid); Detected MW: 1150.40 g/mol (free acid)
Application notes	Incorporation into DNA/cDNA by Nick Translation with DNase I/DNA Polymerase lin-house data. 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 ₆₉ N ₆ O ₁₆ P ₃
SMILES	<chem>P(=O)(OP(=O)(O)[O-])(O)OP(=O)(O)OC[C@H]1O[C@H](C[C@@H]1O)n1c(=O)[nH]c(=O)c(c1)/C=C/CN(C(=O)CCCN(C(=O)c1c(C2=c3cc4c5=[N+](CCC4)CCCc5c3C(c3c2cc2c(c3)N(C(CC2C)(C)C)CC)(C)C)cccc1)C</chem>

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Storage	store at -20 °C. Short term exposure (up to 1 week cumulative) to ambient temperature possible
Note	For research use only
Expiration Date	12 months from date of receipt.

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