

Product Datasheet

Aminoallyl-dUTP-ATTO-550 (orb64161)

Catalog Number	orb64161
Category	Small Molecules
Description	Aminoallyl-dUTP-ATTO550 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-ATTO550/dTTP ratio Nick Translation: 30-50% Aminoallyl-dUTP-ATTO550/50% dTTP.
Form/Appearance	filtered solution (30 kDa) in 10 mM Tris-HCl; Color: red-violet; pH: 7.5 ± 0.5
Concentration	1.0 mM-1.1 mM
Purity	≥ 95% (HPLC)
MW	Theoretical MW: 1098.97 g/mol (free acid); Detected MW: 1098.33 g/mol (free acid)
Application notes	Incorporation into DNA/cDNA by Nick Translation with DNase I/DNA Polymerase in-house data. Spectroscopic Properties: λ _{exc} 554 nm, λ _{em} 576 nm, ε 120.0 L mmol ⁻¹ cm ⁻¹ (Tris-HCl pH 7.5).
Formula	C ₄₉ H ₆₁ N ₆ O ₁₇ P ₃
SMILES	<chem>[C@@H]1(C[C@@H](O[C@@H]1COP(=O)(OP(=O)(OP(=O)([O-])O)O)O)n1c(=O)[nH]c(=O)c(c1)/C=C/CNC(=O)CCCN(C(=O)c1c(C2=c3cc4C(CC([NH+]=c4cc3Oc3cc4NC(CC(c4cc23)C)(C)C)(C)C)C)C)O</chem>
Storage	store at -20 °C

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Note	For research use only
Expiration Date	12 months from date of receipt.

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