

Product Datasheet

Aminoallyl-dUTP-ATTO-680 (orb64150)

Catalog Number	orb64150
Category	Small Molecules
Description	Aminoallyl-dUTP-ATTO680 is recommended for direct enzymatic labeling of DNA/cDNA e.g. by PCR and 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-ATTO680/dTTP ratio for PCR and Nick Translation: 30% Aminoallyl-dUTP-680/70% dTTP.
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: 1030.83 g/mol (free acid); Detected MW: 1030.20 g/mol (free acid)
Application notes	Incorporation into DNA/cDNA by: PCR with Taq polymerase in-house data; Nick Translation with DNase I/DNA Polymerase in-house data. Spectroscopic Properties: λ _{exc} 681 nm, λ _{em} 698 nm, ε 125.0 L mmol ⁻¹ cm ⁻¹ (Tris-HCl pH 7.5).
Formula	C ₃₉ H ₄₉ N ₆ O ₁₉ P ₃ S
SMILES	[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)CCCN1c2c(C(=CC1(C)C)CS(=O)(=O)[O-])cc1c(c2)Oc2c(=N1)cc1c(=[N+](CCC1)CC)c2)O
Storage	store at -20 °C
Note	For research use only

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Expiration Date

12 months from date of receipt.

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