

Product Datasheet

Aminoallyl-dUTP-Cy3 (orb1733880)

Catalog Number	orb1733880
Category	Small Molecules
Description	Aminoallyl-dUTP-Cy3 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-Cy3/dTTP ratio for PCR and Nick Translation: 30-50% Aminoallyl-dUTP-Cy3/50% dTTP.
Form/Appearance	filtered solution (30 kDa) in 10 mM Tris-HCl; Color: pink; pH: 7.5 ± 0.5
Concentration	1.0 mM-1.1 mM
Purity	≥ 95% (HPLC)
MW	Theoretical MW: 1135.97 g/mol (free acid); Detected MW: 1135.21 g/mol (free acid)
Application notes	Incorporation into DNA/cDNA by: Primer Extension with Klenow fragment; PCR with Taq polymerase in-house data; Nick Translation with DNase I/DNA Polymerase in-house data. Spectroscopic Properties: λ _{exc} 550 nm, λ _{em} 570 nm, ε 150.0 L mmol ⁻¹ cm ⁻¹ (Tris-HCl pH 7.5), CF 2600.08.
Formula	C ₄₃ H ₅₆ N ₅ O ₂₁ P ₃ S ₂
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/CNC(=O)CCCCN1c2ccc(S(=O)(=O)O)cc2C(C)(C)/C1=C\C=C\C1=[N+](c2ccc(cc2C1(C)C)S(=O)(=O)[O-])CC</chem>
Storage	store at -20 °C. Short term exposure (up to 1 week cumulative) to ambient temperature possible

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

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