

Product Datasheet

Aminoallyl-dUTP-XX-ATTO-532 (orb533133)

Catalog Number	orb533133
Category	Small Molecules
Description	Aminoallyl-dUTP-XX-ATTO532 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-XX-ATTO532/dTTP ratio for PCR and Nick Translation: 30-50% Aminoallyl-dUTP-XX-ATTO532/50% dTTP.
Form/Appearance	filtered solution (30 kDa) in 10 mM Tris-HCl; Color: orange; pH: 7.5 ± 0.5
Concentration	1.0 mM-1.1 mM
Purity	≥ 95% (HPLC)
MW	Theoretical MW: 1377.22 g/mol (free acid); Detected MW: 1376.32 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} 532 nm, λ_{em} 552 nm, ϵ 115.0 L mmol ⁻¹ cm ⁻¹ (Tris-HCl pH 7.5).
Formula	C ₅₃ H ₇₁ N ₈ O ₂₅ P ₃ S ₂
SMILES	<chem>C(/C=C/c1cn(c(=O)[nH]c1=O)[C@H]1C[C@@H]([C@H](O1)COP(=O)(O)OP(=O)(O)OP(=O)(O)O)NC(=O)CCCCNC(=O)CCCCNC(=O)CCCN(C(=O)c1c(ccc1)c1c2c(oc3c1cc/c(=[NH+]/CC)/c3S(=O)(=O)[O-])c(c(cc2)NCC)S(=O)(=O)O)C</chem>
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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