

Product Datasheet

Aminoallyl-dUTP-XX-Texas Red (orb548673)

Catalog Number	orb548673
Category	Small Molecules
Description	Aminoallyl-dUTP-XX-Texas Red 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-Texas Red/dTTP ratio for PCR and Nick Translation: 20-30% Aminoallyl-dUTP-XX-Texas Red/80-70% dTTP (PCR), 50% Aminoallyl-dUTP-XX-Texas Red/50% dTTP (Nick Translation).
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: 1451.39 g/mol (free acid); Detected MW: 1450.41 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 I in-house data. Spectroscopic Properties: λ_{exc} 588 nm, λ_{em} 609 nm, ϵ 80.0 L mmol ⁻¹ cm ⁻¹ (Tris-HCl pH 7.5).
Formula	C ₆₁ H ₈₁ N ₈ O ₂₃ P ₃ S ₂

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SMILES

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)CCCCCNC(=O)CCCCCNC(=O)CCCCCNS(=O)(=O)c1cc(c(c1)C1=c2c(Oc3c1cc1c4c3CCCN4CCC1)c1c3=[N+](CCCc3c2)CCC1)S(=O)(=O)[O-].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)CCCCCNC(=O)CCCCCNC(=O)CCCCCNOS(=O)(=O)c1cc(ccc1)C1=c2c(Oc3c1cc1c4c3CCCN4CCC1)c1c3=[N+](CCCc3c2)CCC1)S(=O)(=O)[O-]

Storage

store at -20 °C

Note

For research use only

Expiration Date

12 months from date of receipt.

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