

Product Datasheet

Biotin-11-dUTP (orb1733881)

Description	Biotin-11-dUTP is enzymatically incorporated into DNA/cDNA as substitute for its natural counterpart...
Form/Appearance	filtered solution (30 kDa) in 10 mM Tris-HCl; Color: colorless to slightly yellow; pH: 7.5 ± 0.5
Concentration	1.0 mM-1.1 mM
Storage	store at -20 °C. Short term exposure (up to 1 week cumulative) to ambient temperature possible
Note	For research use only
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; Primer Extension with Klenow 3'-5' exo-; 3'-End Labeling with Terminal deoxynucleotidyl Transferase (TdT); Reverse Transcription with MMLV Reverse Transcriptase. Spectroscopic Propertie: λ _{max} 240/289 nm, ε 10.7/7.1 L mmol ⁻¹ cm ⁻¹ , (Tris-HCl pH 7.5).
Formula	C ₂₈ H ₄₅ N ₆ O ₁₇ P ₃ S
Purity	≥ 95% (HPLC)
MW	Theoretical MW: 862.67 g/mol (free acid); Detected MW: 862.18 g/mol (free acid)
SMILES	C1[C@H]2[C@@H]([C@@H](S1)CCCC(=O)NCCCCC(=O)NC/C=C/c1c(=O)[nH]c(=O)n([C@H]3C[C@@H]([C@H](O3)COP(=O)(OP(=O)(OP(=O)(O)O)O)O)c1)NC(=O)N2
Expiration Date	12 months from date of receipt.