

Product Datasheet

Biotin-14-dCTP (orb533284)

Description	Biotin-14-dCTP 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
Note	For research use only
Application notes	Incorporation into DNA/cDNA by: Nick Translation with DNase I/DNA Polymerase I & in-house data; Primer Extension with Klenow fragment. Spectroscopic Propertie: λ _{max} 272 nm, ε 13.3 L mmol ⁻¹ cm ⁻¹ (Tris-HCl, pH 7.5).
Formula	C ₃₁ H ₅₄ N ₇ O ₁₆ P ₃ S
Purity	≥ 95% (HPLC)
MW	Theoretical MW: 905.78 g/mol (free acid); Detected MW: 905.26 g/mol (free acid)
SMILES	OP(=O)(O)OP(=O)(O)OP(=O)(O)OC[C@H]1O[C@@H](n2ccc(nc2=O)NCCCCCCN(=O)CCCCN(=O)CCCC[C@@H]2SC[C@@H]3NC(=O)N[C@H]23)[C@H]1O
Expiration Date	12 months from date of receipt.