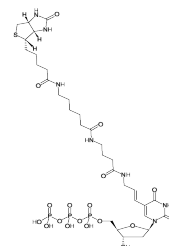


Product Datasheet

Biotin-16-dUTP (orb64051)

Description	Biotin-16-dUTP is enzymatically incorporated into DNA/cDNA as substitute for its natural counterpart...
Form/Appearance	filtered solution (30 kDa) in water; 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: PCR with Taqpolymerase & in-house data; Nick Translation with DNase I/DNA Polymerase I & in-house data; Primer Extension with Klenow exo-; 3'-End Labeling with Terminal deoxynucleotidyl Transferase (TdT); Reverse Transcription with MMLV Reverse Transcriptase. Incorporation into RNA by 3'-End Labeling with Terminal deoxynucleotidyl Transferase (TdT). Spectroscopic Propertie: λ _{max} 240 nm, ε 10.7 L mmol ⁻¹ cm ⁻¹ (Tris-HCl, pH 7.5).
Formula	C ₃₂ H ₅₂ N ₇ O ₁₈ P ₃ S
Purity	≥ 98% (HPLC)
MW	Theoretical MW: 947.78 g/mol (free acid); Detected MW: 947.23 g/mol (free acid)
SMILES	<chem>C1[C@H]2[C@@H]([C@@H](S1)CCCCC(=O)NCCCCC(=O)NCCCC(=O)NC/C=C/c1c(=O)[nH]c(=O)n([C@H]3C[C@H]([C@H](O3)COP(=O)(OP(=O)(O)O)O)O)c1)NC(=O)N2</chem>
Hazard Information	Non-Toxic
Expiration Date	12 months from date of receipt.



Structural
formula of
Biotin-16-
dUTP