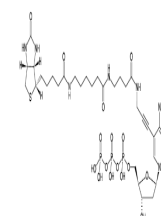


## Product Datasheet

### Biotin-16-dCTP (orb64049)

<b>Description</b>	Biotin-16-dCTP is enzymatically incorporated into DNA/cDNA as substitute for its natural counterpart...
<b>Form/Appearance</b>	filtered solution (30 kDa) in 10 mM Tris-HCl; Color: colorless to slightly yellow; pH: 7.5 ± 0.5
<b>Concentration</b>	1.0 mM-1.1 mM
<b>Storage</b>	store at -20 °C
<b>Note</b>	For research use only
<b>Application notes</b>	Incorporation into DNA/cDNA by: PCR with Taq polymerase in-house data; Nick Translation with DNase I/DNA Polymerase I; Primer Extension with Klenow exo-; 3'-End Labeling with Terminal deoxynucleotidyl Transferase (TdT) ; Reverse Transcription with MMLV Reverse Transcriptase. <b>Spectroscopic Properties:</b> λ <sub>max</sub> 294 nm, ε 9.3 L mmol <sup>-1</sup> cm <sup>-1</sup> (Tris-HCl, pH 7.5).
<b>Formula</b>	C <sub>32</sub> H <sub>51</sub> N <sub>8</sub> O <sub>17</sub> P <sub>3</sub> S
<b>Purity</b>	≥ 95% (HPLC)
<b>MW</b>	Theoretical MW: 944.78 g/mol (free acid); Detected MW: 944.23 g/mol (free acid)
<b>SMILES</b>	<chem>C1[C@H]2[C@@H]([C@@H](S1)CCCC(=O)NCCCCC(=O)NCCCC(=O)NCC#Cc1cn(c(=O)nc1N)[C@@H]1O[C@H](COP(=O)(O)OP(=O)(O)OP(=O)(O)O)[C@@H](O)C1)NC(=O)N2</chem>
<b>Expiration Date</b>	12 months from date of receipt.



Chemical structure of using Biotin-16-dC...