

## Product Datasheet

### Biotin-16-dUTP (orb1733882)

<b>Description</b>	Biotin-16-dUTP is enzymatically incorporated into DNA/cDNA as substitute for its natural counterpart...
<b>Form/Appearance</b>	filtered solution (30 kDa) in water; 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. Short term exposure (up to 1 week cumulative) to ambient temperature possible
<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 & 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). <b>Spectroscopic Propertie:</b> λ <sub>max</sub> 240 nm, ε 10.7 L mmol <sup>-1</sup> cm <sup>-1</sup> (Tris-HCl, pH 7.5).
<b>Formula</b>	C <sub>32</sub> H <sub>52</sub> N <sub>7</sub> O <sub>18</sub> P <sub>3</sub> S
<b>Purity</b>	≥ 98% (HPLC)
<b>MW</b>	Theoretical MW: 947.78 g/mol (free acid); Detected MW: 947.23 g/mol (free acid)
<b>SMILES</b>	C1[C@H]2[C@@H]([C@@H](S1)CCCC(=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
<b>Expiration Date</b>	12 months from date of receipt.