

## Product Datasheet

### Biotin-14-dCTP (orb1733736)

<b>Description</b>	Biotin-14-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. 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: Nick Translation with DNase I/DNA Polymerase I & in-house data; Primer Extension with Klenow fragment. <b>Spectroscopic Propertie:</b> λ <sub>max</sub> 272 nm, ε 13.3 L mmol <sup>-1</sup> cm <sup>-1</sup> (Tris-HCl, pH 7.5).
<b>Formula</b>	C <sub>31</sub> H <sub>54</sub> N <sub>7</sub> O <sub>16</sub> P <sub>3</sub> S
<b>Purity</b>	≥ 95% (HPLC)
<b>MW</b>	Theoretical MW: 905.78 g/mol (free acid); Detected MW: 905.26 g/mol (free acid)
<b>SMILES</b>	OP(=O)(O)OP(=O)(O)OP(=O)(O)OC[C@H]1O[C@@H](n2ccc(nc2=O)NCCC(C)CNC(=O)CCCCNC(=O)CCCC[C@@H]2SC[C@@H]3NC(=O)N[C@H]23)[C@H]1O
<b>Expiration Date</b>	12 months from date of receipt.