

## Product Datasheet

### Biotin-14-dATP (orb1733817)

|                          |   |
|--------------------------|---|
| <b>Description</b>       | Biotin-14-dATP 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.<br><b>Spectroscopic Propertie:</b> λ <sub>max</sub> 266 nm, ε 16.2 L mmol <sup>-1</sup> cm <sup>-1</sup> (Tris-HCl, pH 7.5). |
| <b>Formula</b>           | C <sub>32</sub> H <sub>54</sub> N <sub>9</sub> O <sub>15</sub> P <sub>3</sub> S   |
| <b>Purity</b>            | ≥ 95% (HPLC)  |
| <b>MW</b>                | Theoretical MW: 929.81 g/mol (free acid); Detected MW: 929.27 g/mol (free acid)   |
| <b>SMILES</b>            | OP(=O)(O)OP(=O)(O)OP(=O)(O)OC[C@H]1O[C@@H](n2cnc3c(NCCCCCNC(=O)CCCCNC(=O)CCCC[C@@H]4SC[C@@H]5NC(=O)N[C@H]45)ncnc23)C[C@H]1O   |
| <b>Expiration Date</b>   | 12 months from date of receipt.   |