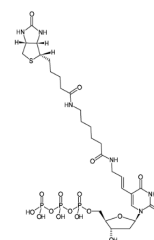


Product Datasheet

Biotin-11-dUTP (orb64042)

| | |
|--------------------------|--|
| Description | Biotin-11-dUTP is enzymatically incorporated into DNA/cDNA as substitute for its natural counterpart... |
| Form/Appearance | filtered solution (30 kDa) in 10 mM Tris-HCl; 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 Taq polymerase & in-house data; Nick Translation with DNase I/DNA Polymerase I & in-house data; Primer Extension with Klenow 3'-5' exo-; 3'-End Labeling with Terminal deoxynucleotidyl Transferase (TdT); Reverse Transcription with MMLV Reverse Transcriptase. Spectroscopic Propertie: λ _{max} 240/289 nm, ε 10.7/7.1 L mmol ⁻¹ cm ⁻¹ , (Tris-HCl pH 7.5). |
| Formula | C ₂₈ H ₄₅ N ₆ O ₁₇ P ₃ S |
| Purity | ≥ 95% (HPLC) |
| MW | Theoretical MW: 862.67 g/mol (free acid); Detected MW: 862.18 g/mol (free acid) |
| SMILES | <chem>C1[C@H]2[C@@H]([C@@H]([C@@H](S1)CCCC(=O)NCCCCC(=O)NC/C=C/c1c(=O)[nH]c(=O)n([C@H]3C[C@@H]([C@H](O3)COP(=O)(OP(=O)(OP(=O)(O)O)O)O)c1)NC(=O)N2</chem> |
| Expiration Date | 12 months from date of receipt. |



Chemical structure of Biotin-11-dUTP (Bi...