

Product Datasheet

Biotin-16-ddUTP (orb1733972)

Description	Biotin-16-(5-aminoallyl)-ddUTP
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. Short term exposure (up to 1 week cumulative) to ambient temperature possible
Note	For research use only
Application notes	Technique for nanoscale patterning of functional molecules on the surface of a DNA origami; 3'-end labeling of oligonucleotides with Terminal Transferase, recombinant and labeling DNA; MALDI-TOF MS-based SNP typing assay; Biotinylation of in vitro transcribed tmRNA during surface plas-mon resonance (SPR) technique; Use in the standard nick translation reaction for tumor DNA la-belling during comparative genomic hybridization. Spectroscopic Propertie: λmax 240/289 nm, ε 10.7/7.1 L mmol ⁻¹ cm ⁻¹ , (Tris-HCl pH 7.5).
Formula	C ₃₂ H ₅₂ N ₇ O ₁₇ P ₃ S
Purity	≥ 95% (HPLC)
MW	Theoretical MW: 931.78 g/mol (free acid); Detected MW: 931.24 g/mol (free acid)
CAS Number	188755-42-2 (Tetralithium salt), 748750-05-2 (free acid)
SMILES	<chem>C1[C@H]2[C@@H]([C@@H](S1)CCCCC(=O)NCCCCC(=O)NCCCC(=O)NC/C=C/c1c(=O)[nH]c(=O)n([C@H]3CC[C@H](O3)COP(=O)(OP(=O)O)O)O)c1)NC(=O)N2</chem>
Expiration Date	12 months from date of receipt.