

Product Datasheet

pCp-Biotin (orb178353)

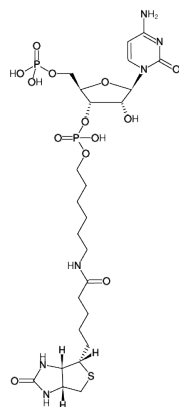
Description	pCp-Biotin is recommended for 3'-End Labeling of RNA/miRNA with T4 RNA Ligase that conjugates a single Biotin molecule to the 3'-OH group of the RNA/miRNA template. The resulting Biotin-labeled RNA/miRNA probes are ideally suited for hybridization experiments such as microarray-based expression profiling or electro mobility shift assays (EMSA). Detection of the Biotin moiety can be performed using streptavidin conjugated with horseradish peroxidase (HRP), alkaline phosphatase (AP) or a fluorescent dye. Alternatively, Biotin-labeled RNA/miRNA probes can also be purified with Streptavidin-conjugated agarose/magnetic beads.
Form/Appearance	solution 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 RNA/miRNA by 3'-End Labeling with T4 RNA Ligase. br> b>Spectroscopic Propertie: λ _{max} 271 nm, ε 8.9 L mmol ⁻¹ cm ⁻¹ (Tris-HCl, pH 7.5).
Formula	C ₂₅ H ₄₂ N ₆ O ₁₃ P ₂ S ₁
Purity	≥ 95% (HPLC)
MW	Theoretical MW: 728.65 g/mol (free acid); Detected MW: 728.20 g/mol (free acid)
SMILES	<chem>Nc1nc(=O)n(cc1)[C@@H]1O[C@H](COP(=O)(O)O)[C@H]([C@H]1O)OP(=O)(O)CCCCNC(=O)CCCC[C@@H]1SC[C@H]2[C@@H]1NC(=O)N2)O</chem>
Hazard Information	Non-Toxic
Expiration Date	12 months from date of receipt.

Biorbyt Ltd.

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Chemical structure of pCp (Biotin).

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