

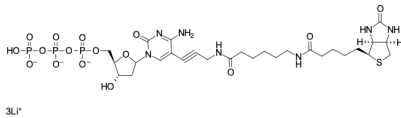
## Biotin-11-dCTP

<http://www.lumiprobe.com/p/biotin-11-dctp>

Biotin-11-dCTP is a deoxycytidine triphosphate (dCTP) linked to a biotine molecule via an 11-atom linker, which allows efficient interaction with avidin and streptavidin; incorporation into DNA proceeds as with natural dCTP.

Biotinylated DNA can be detected using alkaline phosphatase-conjugated avidin/streptavidin or relevant fluorescent-labeled antibodies.

Biotin-labeled DNA/cDNA probes can be used for fluorescent hybridization *in situ* or microarray gene profiling.



**Structure of Biotin-11-dCTP**

### General properties

Appearance: colorless solid

Molecular weight: 877.48

Molecular formula:  $C_{28}H_{41}Li_3N_9O_{18}P_3S$

IUPAC name: ((2R,3S,5R)-5-(4-amino-2-oxo-5-(3-(6-(5-((3aS,4S,6aR)-2-oxohexahydro-1H-thieno[3,4-d]imidazol-4-yl)pentanamido)hexanamido)prop-1-yn-1-yl)-3,4-dihydropyrimidin-1(2H)-yl)-3-hydroxytetrahydrofuran-2-yl)methyl hydrogen triphosphate

Solubility: soluble in water

Quality control: HPLC-MS (95%), testing in enzymatic reaction

Storage conditions: Storage: 12 months after receipt at -20°C in the dark. Transportation: at room temperature for up to 3 weeks. Avoid excessive freeze-thaw cycles.

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