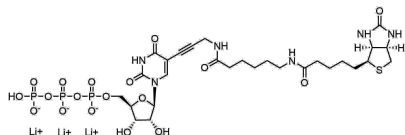


## Biotin-11-UTP

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

Biotin-11-UTP is a substrate for RNA-polymerases SP6, T3, and T7. Biotinylated triphosphate is an analog of natural UTP and can be used for RNA labeling in transcription *in vitro*.

Biotinylated RNA can be used instead of radioactive-labeled RNA in many applications, including Northern and Southern blots, hybridization *in situ*, and microarray analysis. Biotinylated RNA is detected using various methods with streptavidin conjugates, and the long linker of 11 atoms allows efficient interaction of biotin with streptavidin.



**Structure of Biotin-11-UTP**

### General properties

Appearance: colorless solid

Molecular weight: 894.48

Molecular formula:  $C_{28}H_{43}N_9Li_3O_{18}P_3S$

IUPAC name: ((2R,3S,4R,5R)-5-(2,4-dioxo-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)-3,4-dihydroxytetrahydrofuran-2-yl)methyl hydrogen triphosphate

Solubility: good 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.