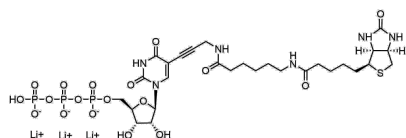


Biotin-11-UTP

<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 ₁₀ Li ₃ O ₁₈ P ₃ S |
| 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. |
| Legal statement: | This Product is offered and sold for research purposes only. It has not been tested for safety and efficacy in food, drug, medical device, cosmetic, commercial or any other use. Supply does not express or imply authorization to use for any other purpose, including, without limitation, in vitro diagnostic purposes, in the manufacture of food or pharmaceutical products, in medical devices or in cosmetic products. |