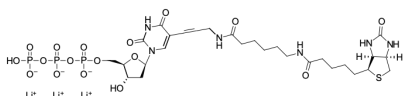


## Biotin-11-dUTP

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

Biotinylated deoxyuridine triphosphate (dUTP) can be used for DNA labeling using various methods, including Nick-translation and 3'-terminal non-radioactive labeling. Generated probes can be used in various hybridization experiments such as Southern blot, Northern blot, dot blot, or FISH. Biotin-labeled probes are detected with horseradish peroxidase-conjugated streptavidin or other biomolecule conjugates binding biotin.

«11» in the compound name indicates the length of the linker between dUTP and biotin; this linker increases the efficiency of labeled dUTP incorporation into DNA and interaction of biotin with specific proteins such as avidin/streptavidin or anti-biotin antibodies.



**Structure of Biotin-11-dUTP**

### General properties

Appearance: colorless solid

Molecular weight: 878.54

Molecular formula:  $C_{28}H_{40}N_6Li_3O_{17}P_3S$

IUPAC name: ((2R,3S,5R)-5-(2,4-dioxo-5-(3-(6-((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.

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.