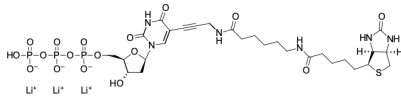


Biotin-11-dUTP

<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: $C_{28}H_{40}N_6Li_3O_{13}P_3S$

IUPAC name: ((2R,3S,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-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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