Lumiprobe Corporation
115 Airport Dr Suite 160
Westminster, Maryland 21157
USA
Phone: +1 888 973 6353
Fax: +1 888 973 6354
Email: order@lumiprobe.com

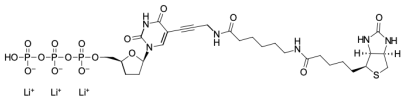
Biotin-11-ddUTP

http://www.lumiprobe.com/p/biotin-11-ddutp

Biotin-11-ddUTP is a biotinylated dideoxyuridine triphosphate analog. Its dideoxy structure acts as an irreversible chain terminator during DNA synthesis, while the biotin moiety provides a stable tag for detection. The C11 spacer arm optimizes the molecule by facilitating polymerase recognition and ensuring unhindered interaction between the conjugated biotin and streptavidin.

Biotin-11-ddUTP can be incorporated by many DNA polymerases and terminal transferases into growing DNA strands, where it irreversibly terminates elongation while introducing a single biotin tag at the incorporation site.

This reagent is used for the enzymatic preparation of biotin-labeled oligonucleotide probes, end-labeling of DNA fragments, DNA sequencing, SNP detection, and probe labeling.



Structure of Biotin-11-ddUTP

General properties

Appearance:	white solid
Molecular weight:	862.47
Molecular formula:	$C_{28}H_{40}Li_3N_6O_{16}P_3S$
Quality control:	NMR ^1H and HPLC-MS (95+%)
Storage conditions:	24 months after receival at -20°C in the dark. Transportation: at room temperature for up to 3 weeks. Desiccate.
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.