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Amino-11-CTP

http://www.lumiprobe.com/p/amino-11-ctp

Amino-11-CTP is cytidine triphosphate (CTP) with an amino group for enzymatic synthesis of RNA molecule with modified nucleoside triphosphates.

Chemical modification of RNA can be achieved by application of enzymatic polymerization of nucleoside triphosphates. The 5-position of pyrimidines is known to be permissible site for modifications that are accepted by polymerases.

The product Amino-11-CTP is a 5'-triphosphate backbone bearing nucleobase modified with amino group via long C11 linker.

Amine-modified nucleotides are capable of downstream RNA modification with the amino-reactive NHS esters of fluorescent dyes or haptens for detection and immobilisation.

Structure of Amino-11-CTP

General properties

Appearance: white solid Molecular weight: 1009.46 Molecular formula: $C_{18}H_{65}Li_3N_5O_{34}P_3$

Molecular formula. C₁₈11₆₅Ll₃N₅O₃₄I₃

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.