

Amino-11-CTP

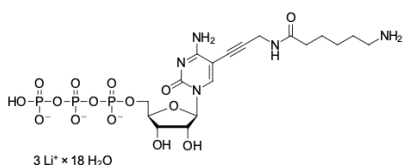
<http://www.lumiprobe.com/p/amino-11-ctp>

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: C₁₈H₆₅Li₃N₅O₃₄P₃

Quality control: NMR ¹H and HPLC-MS (95+%)

Storage conditions: Storage: 24 months after receipt at -20°C in the dark. Transportation: at room temperature for up to 3 weeks. Avoid prolonged exposure to light and excessive freeze-thaw cycles.

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