

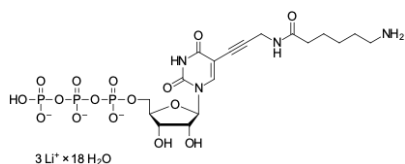
## Amino-11-UTP

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

Amino-UTP is uridine triphosphate with an amino group, which is designed for enzymatic incorporation of the amino group into the RNA molecule during *in vitro* transcription using T7, T3, and SP6 RNA polymerases. The enzymatic reaction results in the RNA molecule with amino groups, which can be conjugated with amine-reactive reagents such as NHS esters of fluorescent dyes or biotin.

The amino group is separated from uridine with a long linker of 11 atoms; it is longer than frequently used C3-allyl linker and prevents the fluorophore from potential static quenching after RNA labeling via the amino group. The efficacy of RNA synthesis using amino-11-UTP is almost the same as that when using non-labeled nucleotide triphosphates.

Incorporation of amino-11-UTP with subsequent labeling via the amino group is used for cRNA synthesis and microarray analysis.



**Structure of Amino-11-UTP**

### General properties

Appearance: off white solid

Molecular weight: 920.37

Molecular formula: C<sub>18</sub>H<sub>54</sub>N<sub>4</sub>Li<sub>3</sub>O<sub>30</sub>P<sub>3</sub>

Solubility: good in water

Quality control: NMR <sup>1</sup>H, 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.

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.