

BIOSAN,
28, Ingenernaya Str.
630090, Novosibirsk, Russia
tel.: +7(383) 363-51-91, 363-22-40
fax: +7(383) 363-51-91
mail@biosan-nsk.ru
www.biosan-nsk.ru



DATA QUALITY SHEET

5-Aminoallyluridine-5'-Triphosphate (AA-UTP)

FOR RESEARCH USE ONLY

Description

Aminoallyl-UTP can be enzymatically incorporated into RNA with T7, T3 and SP6 RNA polymerases. The resulting amine-containing RNA can be subsequently labeled with any amine-reactive fluorescent dye, biotin, or hapten. Dye labeled aminoallyl modified RNAs are useful in microarray analysis and have been used for localization of RNA in cell. Also it is possible to couple 1,10-phenanthroline to an aminoallyl modified RNA for sequence specific cleavage of nucleic acids.

Since AA-UTP (and AA-CTP) maintains a strict Watson-Crick base pairing recognition it is suited for the systematic evolution of ligands by exponential enrichment (SELEX) process thus allowing an introduction of primary amino-functionalities to RNA libraries.

Delivery form

Sterile water solution of ammonium salt nucleotide. Colorless transparent liquid.

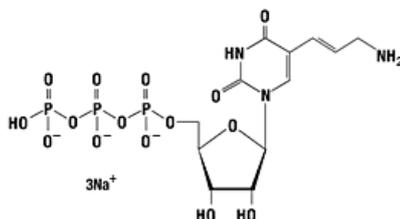
Concentration

0.1 M

Quality control

- Purity according to HPLC analysis is not less than 96%.
- Functionally tested in *in vitro* transcription with T7 RNA Polymerase
- The concentration is determined spectrophotometrically, $\lambda_{\max} = 290$ nm.

Structural formula (free acid)



Formula

$C_{12}H_{20}N_3O_{15}P_3$ (free acid)

Molecular weight

539.2 g/mol (free acid)

Storage

-20°C. Avoid multiple freezing-thawing.

Transportation

The product does not require special conditions of transportation.