

Product Name: Biotin-11-dUTP

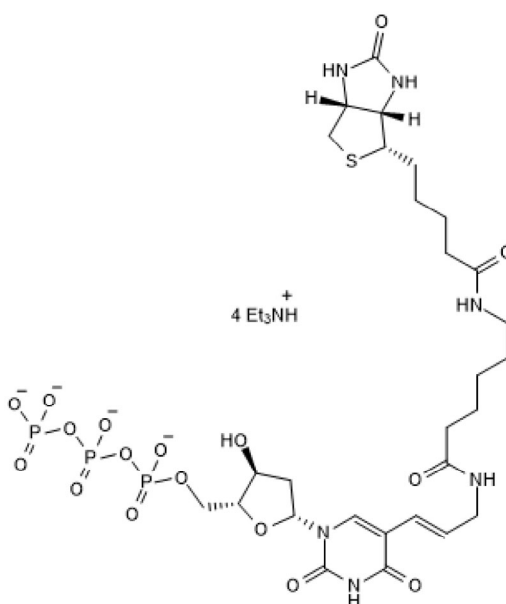
Catalog No.: 6571

Batch No.: 8

IUPAC Name: 2'-Deoxy-5-[(1*E*)-3-[[6-[[5-[(3*aS*,4*S*,6*aR*)-hexahydro-2-oxo-1*H*-thieno[3,4-*d*]imidazol-4-yl]-1-oxopentyl]amino]-1-oxohexyl]amino]-1-propen-1-yl]uridine 5'-(tetra(triethylammonium) triphosphate)

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₈H₄₅N₆O₁₇P₃S.4(C₂H₅)₃N
Batch Molecular Weight: 1267.43
Physical Appearance: Colourless to slightly yellow solution
Solubility: 10mM Tris-HCl buffer (supplied pre-dissolved - 1mM) to 1 mM
Storage: Store at -20°C
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99.7% purity
Mass Spectrum: Consistent with structure

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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Description:

Biotin-11-dUTP is a biotin-labeled dUTP. Commonly used in PCR, nick translation, and reverse transcription. Also frequently used in apoptosis assays. Biotin-labeled DNA may be detected with streptavidin-HRP conjugates.

Physical and Chemical Properties:

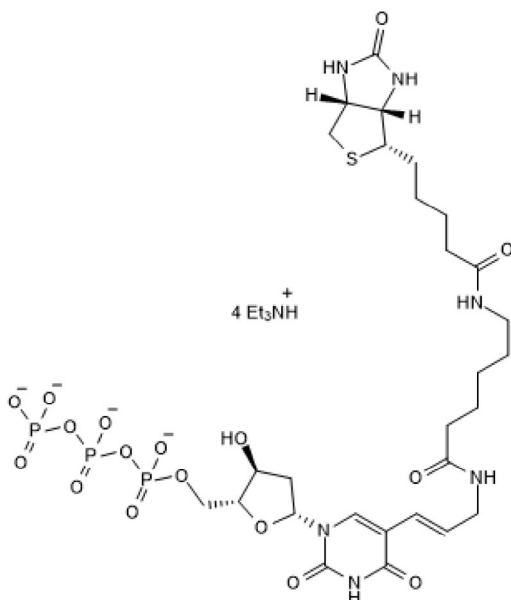
Batch Molecular Formula: C₂₈H₄₅N₆O₁₇P₃S.4(C₂H₅)₃N

Batch Molecular Weight: 1267.43

Physical Appearance: Colourless to slightly yellow solution

Minimum Purity: ≥95%

Batch Molecular Structure:



Storage: Store at -20°C

Solubility & Usage Info:

10mM Tris-HCl buffer (supplied pre-dissolved - 1mM) to 1 mM

This product is supplied dissolved in 10 mM Tris-HCl buffer at a concentration of 1 mM.

Stability and Solubility Advice:

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. *Unless contradicted by product-specific protocols or instructions, our standard recommendations apply:

SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

References:

Jun-Hyuk Choi *et al* (2015) An integrated approach for analysis of the DNA damage response in mammalian cells *J.Biol.Chem.* **290** 2881. PMID: 26438822.

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