

# Certificate of Analysis

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**Product Name:** Biotin-11-dUTP

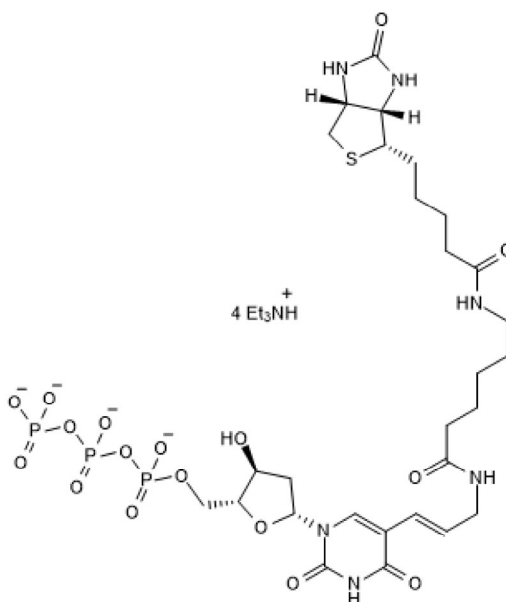
**Catalog No.:** 6571

**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

<b>Batch Molecular Formula:</b>	C <sub>28</sub> H <sub>45</sub> N <sub>6</sub> O <sub>17</sub> P <sub>3</sub> S.4(C <sub>2</sub> H <sub>5</sub> ) <sub>3</sub> N
<b>Batch Molecular Weight:</b>	1267.43
<b>Physical Appearance:</b>	Colourless to slightly yellow solution
<b>Solubility:</b>	10mM Tris-HCl buffer (supplied pre-dissolved - 1mM) to 1 mM
<b>Storage:</b>	Store at -20°C
<b>Batch Molecular Structure:</b>	



## 2. ANALYTICAL DATA

<b>HPLC:</b>	Shows 99.5% purity
<b>Mass Spectrum:</b>	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:**

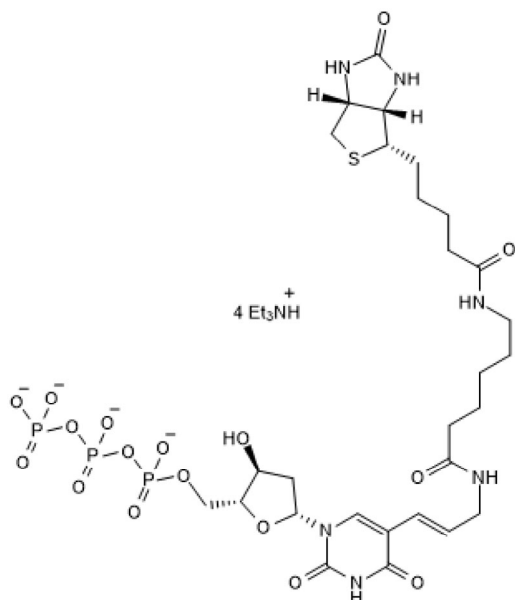
Batch Molecular Formula: C<sub>28</sub>H<sub>45</sub>N<sub>6</sub>O<sub>17</sub>P<sub>3</sub>S.4(C<sub>2</sub>H<sub>5</sub>)<sub>3</sub>N

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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