

Product Name: O-Propargyl-puromycin

Catalog No.: 7391

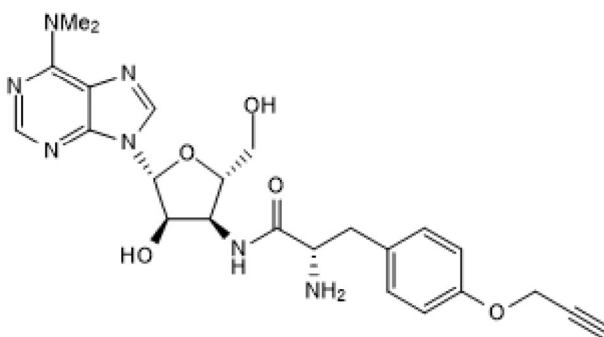
Batch No.: 1

CAS Number: 1416561-90-4

IUPAC Name: 3'-[[[(2S)-2-Amino-1-oxo-3-[4-(2-propyn-1-yloxy)phenyl]propyl]amino]-3'-deoxy-*N,N*-dimethyladenosine

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₄H₂₉N₇O₅.H₂O
Batch Molecular Weight: 513.56
Physical Appearance: White solid
Solubility: DMSO to 100 mM
Storage: Store at -20°C
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 98.9% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Microanalysis:

| | Carbon | Hydrogen | Nitrogen |
|-------------|--------|----------|----------|
| Theoretical | 56.13 | 6.08 | 19.09 |
| Found | 56.14 | 6.06 | 18.98 |

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

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Description:

O-Propargyl-puromycin (OP-puro) is a puromycin analog that is incorporated into nascent polypeptides. It is used for the labeling of newly synthesized proteins in cells and whole animals in vivo. O-Propargyl-puromycin can be click-conjugated to fluorescent azides for visualization by fluorescence microscopy. The product does not require methionine-free conditions. It can also be used in flow cytometry.

Physical and Chemical Properties:

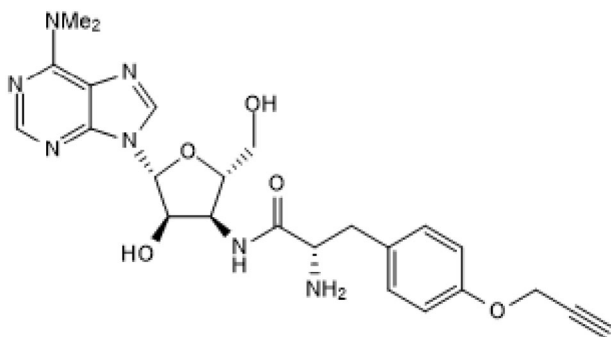
Batch Molecular Formula: C₂₄H₂₉N₇O₅.H₂O

Batch Molecular Weight: 513.56

Physical Appearance: White solid

Minimum Purity: ≥97%

Batch Molecular Structure:



Storage: Store at -20°C

Solubility & Usage Info:

DMSO to 100 mM

This product is supplied in lyophilized form. It may appear as a solid, gel or film and be very hard to visualize. Solutions should be made by adding solvent directly to the vial. The vial should then be vortexed vigorously to ensure the product has completely dissolved.

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:

Morral *et al* (2020) Zonation of ribosomal DNA transcription defines a stem cell hierarchy in colorectal cancer. *Cell Stem Cell* **26** 845. PMID: 32396863.

Liu *et al* (2012) Imaging protein synthesis in cells and tissues with an alkyne analog of puromycin. *Proc.Natl.Acad.Sci.USA* **109** 413. PMID: 22160674.

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