

Product Name: 5-Ethynyluridine

Catalog No.: 7206

Batch No.: 1

CAS Number: 69075-42-9

IUPAC Name: 1-((2*R*,3*R*,4*S*,5*R*)-3,4-Dihydroxy-5-(hydroxymethyl)tetrahydrofuran-2-yl)-5-ethynylpyrimidine-2,4(1*H*,3*H*)-dione

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₁H₁₂N₂O₆.

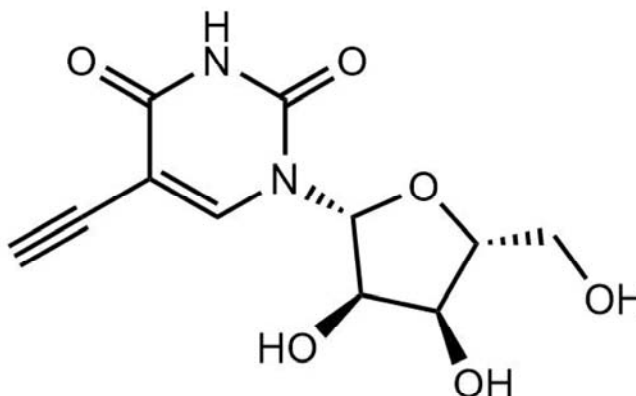
Batch Molecular Weight: 268.23

Physical Appearance: Blue solid

Solubility: Please refer to Solubility & Usage Information on Product Information sheet.

Storage: Store at -20°C

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99.2% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	49.26	4.51	10.44
Found	49.36	4.55	10.49

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

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Description:

5-Ethynyluridine is a cell-permeable uridine analog. 5-Ethynyluridine can be used in vitro and in vivo to label newly synthesized RNA. 5-Ethynyluridine can be used to study changes in transcription.

Physical and Chemical Properties:

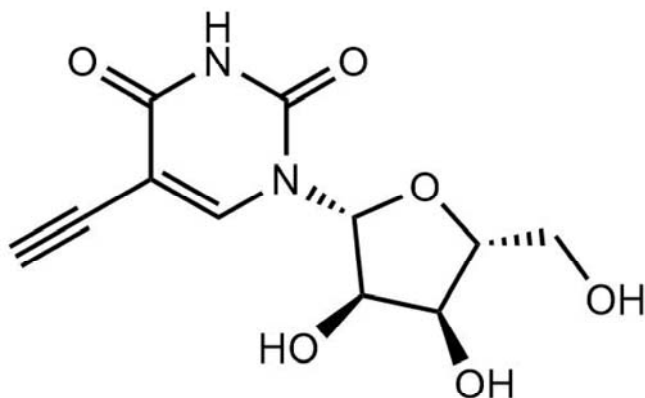
Batch Molecular Formula: C₁₁H₁₂N₂O₆.

Batch Molecular Weight: 268.23

Physical Appearance: Blue solid

Minimum Purity: ≥98%

Batch Molecular Structure:



Storage: Store at -20°C

Solubility & Usage Info:

water to 50 mM

DMSO to 100 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. Our standard recommendations are:

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:

Van't Sant et al (2021) *In vivo* 5-ethynyluridine (EU) labelling detects reduced transcription in Purkinje cell degeneration mouse mutants, but can itself induce neurodegeneration. *Acta Neuropathol.Commun.* **9** 94. PMID: 34020718.

Nainar et al (2020) An optimized chemical-genetic method for cell-specific metabolic labeling of RNA. *Nat.Methods* **17** 311. PMID: 32015544.

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