TOCRIS a biotechne brand

Batch No.: 1

Certificate of Analysis

www.tocris.com

Catalog No.: 4990

Product Name: Stavudine

CAS Number: IUPAC Name:

Storage:

3056-17-5

1-[(2R,5S)-2,5-Dihydro-5-(hydroxymethyl)-2-furanyl]-5-methyl-2,4(1H,3H)-pyrimidinedione

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula:
Batch Molecular Weight:
Physical Appearance:
Solubility:

Batch Molecular Structure:

C₁₀H₁₂N₂O₄ 224.21 White solid water to 100 mM DMSO to 100 mM Store at -20°C

2. ANALYTICAL DATA

HPLC: ¹H NMR: Mass Spectrum: Optical Rotation: Microanalysis: Shows 99.4% purity Consistent with structure Consistent with structure $[\alpha]_D = -44.2$ (Concentration = 0.7, Solvent = Water) Carbon Hydrogen Nitrogen

Theoretical	53.57	5.39	12.49
Found	53.52	5.45	12.67

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

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Print Date: Jan 14th 2016

Batch No.: 1

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CAS Number: **IUPAC Name:**

1-[(2R,5S)-2,5-Dihydro-5-(hydroxymethyl)-2-furanyl]-5-methyl-2,4(1H,3H)-pyrimidinedione

Description:

Nucleoside analog; antiviral that inhibits HIV replication in vitro. Orally bioavailable.

3056-17-5

Physical and Chemical Properties:

Batch Molecular Formula: C₁₀H₁₂N₂O₄ Batch Molecular Weight: 224.21 Physical Appearance: White solid

Minimum Purity: >99%

Batch Molecular Structure:

HO

Storage: Store at -20°C

Solubility & Usage Info: water to 100 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).

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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:

Baba et al (1987) Both 2',3'-dideoxythymidine and its 2',3'-unsaturated derivative (2',3'-dideoxythymidinene) are potent and selective inhibitors of human immunodeficiency virus replication in vitro. Biochem.Biophys.Res.Commun. 142 128. PMID: 3028398. Riddler et al (1995) Antiretroviral activity of stavudine (2',3'-didehydro-3'-deoxythymidine, D4T). Antiviral Res. 27 189. PMID: 8540743.

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