TOCRIS a biotechne brand

Batch No.: 2

Certificate of Analysis

www.tocris.com

Catalog No.: 2033

Product Name: Pentostatin

CAS Number: IUPAC Name:

Storage:

53910-25-1

(8R)-3-(2-Deoxy-β-D-erythro-pentofuranosyl)-3,4,7,8-tetrahydroimidazo[4,5-d][1,3]diazepin-8-ol

1. PHYSICAL AND CHEMICAL PROPERTIES

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

Batch Molecular Structure:

C₁₁H₁₆N₄O₄ 268.27 White solid water to 100 mM DMSO to 75 mM Store at +4°C

2. ANALYTICAL DATA

HPLC: ¹H NMR: Mass Spectrum: Optical Rotation: Microanalysis: Shows 99.6% purity Consistent with structure Consistent with structure $[\alpha]_D = +71$ (Concentration = 1, Solvent = Water)

	Carbon H	yarogen i	Nitrogen
Theoretical	49.25	6.01	20.88
Found	49.24	6.15	21.09

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

bio-techne.com	North America	China	Europe Middle East Africa	Rest of World
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Print Date: Jan 14th 2016

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Product Name: Pentostatin

CAS Number: 53910-25-1

(8R)-3-(2-Deoxy-β-D-erythro-pentofuranosyl)-3,4,7,8-tetrahydroimidazo[4,5-d][1,3]diazepin-8-ol

Description:

IUPAC Name:

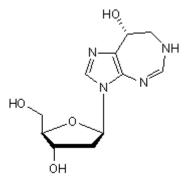
Irreversible inhibitor of adenosine deaminase (K_i = 2.5 pM). Anticancer agent.

Physical and Chemical Properties:

Batch Molecular Formula: $C_{11}H_{16}N_4O_4$ Batch Molecular Weight: 268.27 Physical Appearance: White solid

Minimum Purity: >99%

Batch Molecular Structure:



Storage: Store at +4°C

Solubility & Usage Info: water to 100 mM DMSO to 75 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:

Klohs and Kraker (1992) Pentostatin: future directions. Pharmacol.Rev. 44 459. PMID: 1480666.

Nabhan *et al* (2004) Purine nucleoside analogues and combination therapies in B-cell chronic lymphocytic leukemia: dawn of a new era. Leukemia Res. **28** 429.

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