## 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:** 

C<sub>11</sub>H<sub>16</sub>N<sub>4</sub>O<sub>4</sub> 268.27 White solid water to 100 mM DMSO to 75 mM Store at +4°C

## 2. ANALYTICAL DATA

HPLC: <sup>1</sup>H 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

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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:** 

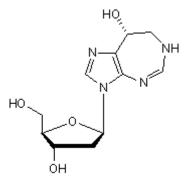
Irreversible inhibitor of adenosine deaminase ( $K_i$  = 2.5 pM). Anticancer agent.

#### **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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