TOCRIS a biotechne brand

Print Date: Jan 15th 2016

www.tocris.com

Product Name: Pentamidine isethionate

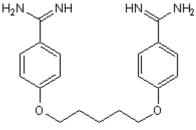
Catalog No.: 3277 EC Number: 205-424-1 Batch No.: 1

CAS Number: IUPAC Name: 140-64-7

4,4'-(Pentamethylenedioxy)dibenzamidine *bis*-2-hydroxyethanesulfonate salt

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: Batch Molecular Weight: Physical Appearance: Solubility: Storage: Batch Molecular Structure: $C_{19}H_{24}N_4O_2.2C_2H_6O_4S$ 592.68 White solid water to 100 mM Store at -20°C



.2 HO-CH₂-CH₂-SO₃H

2. ANALYTICAL DATA

HPLC: ¹H NMR: Mass Spectrum: Microanalysis:

Shows >99.5% purity Consistent with structure Consistent with structure

	Carbon	Hydrogen	Nitrogen
Theoretical	46.61	6.12	9.45
Found	46.34	6.21	9.36

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
info@bio-techne.com techsupport@bio-techne.com	Tel: (800) 343 7475	info.cn@bio-techne.com Tel: +86 (21) 52380373	Tel: +44 (0)1235 529449	www.tocris.com/distributors Tel:+1 612 379 2956

TOCRIS a bio-techne brand

Product Information

www.tocris.com

Print Date: Jan 15th 2016

Batch No.: 1

Product Name: Pentamidine isethionate

CAS Number: 140-64-7 IUPAC Name: 4,4'-(Pentamet -----

ne: 4,4'-(Pentamethylenedioxy)dibenzamidine *bis*-2-hydroxyethanesulfonate salt

Description:

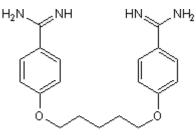
Antimicrobial. Neuroprotective; inhibits constitutive nitric oxide synthase in the brain and acts as a NMDA glutamate receptor antagonist.

Physical and Chemical Properties:

Batch Molecular Formula: $C_{19}H_{24}N_4O_2.2C_2H_6O_4S$ Batch Molecular Weight: 592.68 Physical Appearance: White solid

Minimum Purity: >99%

Batch Molecular Structure:



.2 HO-CH2-CH2-SO3H

Storage: Store at -20°C

Solubility & Usage Info: water 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).

Catalog No.: 3277

EC Number: 205-424-1

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:

Reynolds and Aizeman (1992) Pentamidine is an N-methyl-D-aspartate receptor antagonist and is neuroprotective *in vitro*. J.Neurosci. **12** 970. PMID: 1532027.

Kitamura et al (1995) Inhibition of constitutive nitric oxide synthase in the brain by pentamidine, a calmodulin antagonist. Eur.J.Pharmacol. 289 299. PMID: 7542607.

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
info@bio-techne.com techsupport@bio-techne.com	Tel: (800) 343 7475	info.cn@bio-techne.com Tel: +86 (21) 52380373	Tel: +44 (0)1235 529449	www.tocris.com/distributors Tel:+1 612 379 2956