Product Name: Pentamidine isethionate  
Catalog No.: 3277  
Batch No.: 1  
CAS Number: 140-64-7  
EC Number: 205-424-1  
IUPAC Name: 4,4’-(Pentamethylenedioxy)dibenzamidine bis-2-hydroxyethanesulfonate salt

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: $\text{C}_{19}\text{H}_{24}\text{N}_{4}\text{O}_{2}.2\text{C}_{2}\text{H}_{6}\text{O}_{4}\text{S}$

Batch Molecular Weight: 592.68

Physical Appearance: White solid

Solubility: water to 100 mM

Storage: Store at -20°C

Batch Molecular Structure:

\[
\begin{align*}
\text{H}_2\text{N} & \quad \text{NH} & \quad \text{HN} & \quad \text{NH}_2 \\
\text{O} & \quad \text{O} & \quad \text{O} & \quad \text{O} \\
\text{2 HO-OCH}_2\text{-CH}_2\text{-SO}_3\text{H}
\end{align*}
\]

2. ANALYTICAL DATA

HPLC: Shows >99.5% purity

$^1$H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

<table>
<thead>
<tr>
<th>Element</th>
<th>Theoretical</th>
<th>Found</th>
</tr>
</thead>
<tbody>
<tr>
<td>Carbon</td>
<td>46.61</td>
<td>46.34</td>
</tr>
<tr>
<td>Hydrogen</td>
<td>6.12</td>
<td>6.21</td>
</tr>
<tr>
<td>Nitrogen</td>
<td>9.45</td>
<td>9.36</td>
</tr>
</tbody>
</table>

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

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Product Information

Product Name: Pentamidine isethionate
Catalog No.: 3277  Batch No.: 1
CAS Number: 140-64-7  EC Number: 205-424-1
IUPAC Name: 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_{10}H_{34}N_{4}O_{7}.2C_{2}H_{6}O_{9}S
Batch Molecular Weight: 592.68
Physical Appearance: White solid
Minimum Purity: >99%

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).

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: