1. PHYSICAL AND CHEMICAL PROPERTIES

   Batch Molecular Formula: \( \text{C}_{51}\text{H}_{34}\text{N}_{6}\text{Na}_{6}\text{O}_{23}\text{S}_{6}.13\text{H}_{2}\text{O} \)
   Batch Molecular Weight: 1663.3476
   Physical Appearance: White solid
   Solubility: water to 50 mM
   DMSO to 10 mM
   Storage: Store at RT

2. ANALYTICAL DATA

   HPLC: Shows 99.4% purity
   \(^1\text{H} \text{NMR:} \)
   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>36.83</td>
<td>36.6</td>
</tr>
<tr>
<td>Hydrogen</td>
<td>3.64</td>
<td>3.81</td>
</tr>
<tr>
<td>Nitrogen</td>
<td>5.05</td>
<td>4.93</td>
</tr>
</tbody>
</table>

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

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Product Name: Suramin hexasodium salt
Catalog No.: 1472
Batch No.: 7
EC Number: 204-949-3

IUPAC Name: 8,8’-[Carbonyl bis[iminoo-3,1-phenylene carbonylimino](4-methyl-3,1-phenylene) carbonylimino]]
bis-1,3,5-naphthalenetrisulfonic acid hexasodium salt

Description:
Non-selective P2 purinergic antagonist. Also blocks calmodulin binding to recognition sites and G protein coupling to G protein-coupled receptors. Increases open probability of ryanodine receptor (RyR) channels. Also acts as a competitive α1β2γ2 GABA_A receptor antagonist. Anticancer and antiviral agent.

Physical and Chemical Properties:
Batch Molecular Formula: C_{51}H_{34}N_{6}Na_{6}O_{28}S_{6}·13H_{2}O
Batch Molecular Weight: 1663.3476
Physical Appearance: White solid

Storage: Store at RT
CAUTION - This product is light sensitive and we recommend that the solid material and any solutions obtained are protected from exposure to light.

Solubility & Usage Info:
- water to 50 mM
- DMSO to 10 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: