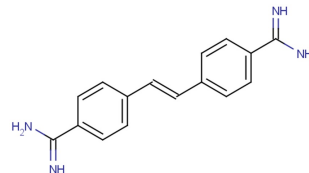


Stilbamidine

Chemical Properties

| | |
|-------------------|--|
| CAS No.: | 122-06-5 |
| Formula: | C ₁₆ H ₁₆ N ₄ |
| Molecular Weight: | 264.33 |
| Appearance: | N/A |
| Storage: | 0-4°C for short term (days to weeks), or -20°C for long term (months). |



Biological Description

| | |
|----------------------------|---|
| Description | Stilbamidine used chiefly in the form of its crystalline isethionate salt in treating various fungal infections. |
| Targets(IC ₅₀) | fungal: None |
| In vitro | Propamidine inhibits the high-affinity pentamidine transporter, adenosine-sensitive pentamidine transporter (ASPT1), in contrast, is strongly inhibited by Stilbamidine, and Propamidine. [3H]pentamidine uptake is determined in the presence of various concentrations of adenosine with IC ₅₀ of 1.2 µM or melarsen oxide with IC ₅₀ of 0.7 µM, as well as in the presence of 250 µM adenosine and increasing concentrations of hypoxanthine, Propamidine with IC ₅₀ of 6.1 µM and Stilbamidine with IC ₅₀ of 110 µM[1]. The two diamidine compounds, Stilbamidine and Pentamidine are used to treat in multiple myeloma, a disease in which increase of the globulin content of the serum is of frequent occurrence[2]. |

Solubility Information

| | |
|------------|---|
| Solubility | < 1 mg/ml refers to the product slightly soluble or insoluble |
|------------|---|

Preparing Stock Solutions

| | 1mg | 5mg | 10mg |
|-------|----------|-----------|-----------|
| 1 mM | 3.783 mL | 18.916 mL | 37.831 mL |
| 5 mM | 0.757 mL | 3.783 mL | 7.566 mL |
| 10 mM | 0.378 mL | 1.892 mL | 3.783 mL |
| 50 mM | 0.076 mL | 0.378 mL | 0.757 mL |

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

Reference

1. De Koning HP. Uptake of pentamidine in Trypanosoma brucei brucei is mediated by three distinct transporters: implications for cross-resistance with arsenicals. Mol Pharmacol. 2001 Mar;59(3):586-92.
2. BREWER AE.et al. Multiple myeloma treated with stilbamidine and pentamidine. Br Med J. 1948 Dec 4;2(4587):978-82.

Inhibitors · Natural Compounds · Compound Libraries

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