

Product Data Sheet

Product Name: Stilbamidine (Ba 2652)

Cat. No.: GC32268

Chemical Properties

Cas. No. 122-06-5

SMILES N=C(C1=CC=C(/C=C/C2=CC=C(C(N)=N)C=C2)C=C1)N

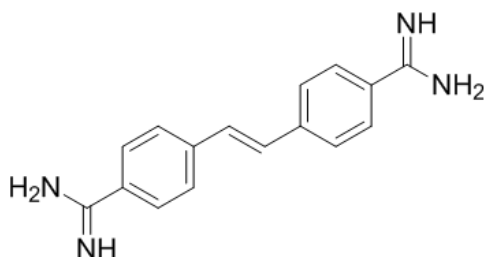
Formula $C_{16}H_{16}N_4$ M.Wt 264.33

Solubility Soluble in DMSO Storage Store at -20°C

General tips For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution: ship with blue ice. All other available size: ship with RT, or blue ice upon request.

Structure



Background

Stilbamidine is a diamidine compound derived from Stilbene and used chiefly in the form of its crystalline isethionate salt in treating various fungal infections.

The high-affinity pentamidine transporter (HAPT1) is inhibited by Propamidine but displays only low affinity to Stilbamidine. 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 (IC₅₀=1.2 μM) or melarsen oxide (IC₅₀=0.7 μM), as well as in

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the presence of 250 μ M adenosine and increasing concentrations of hypoxanthine, Propamidine ($IC_{50}=6.1 \mu$ M) and Stilbamidine ($IC_{50}=110 \mu$ M)[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].

[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.

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