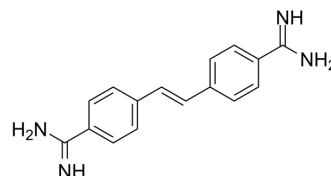


Stilbamidine

| | |
|---------------------------|---|
| Cat. No.: | HY-U00007 |
| CAS No.: | 122-06-5 |
| Molecular Formula: | C ₁₆ H ₁₆ N ₄ |
| Molecular Weight: | 264.33 |
| Target: | Fungal |
| Pathway: | Anti-infection |
| Storage: | Please store the product under the recommended conditions in the Certificate of Analysis. |



BIOLOGICAL ACTIVITY

| | |
|-------------------------------------|--|
| Description | Stilbamidine is a diamidine compound derived from Stilbene and used chiefly in the form of its crystalline isethionate salt in treating various fungal infections. |
| IC₅₀ & Target | fungal |
| In Vitro | <p>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 the presence of 250 μM adenosine and increasing concentrations of hypoxanthine, Propamidine (IC₅₀=6.1 μM) and Stilbamidine (IC₅₀=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].</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p> |

REFERENCES

[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.

Caution: Product has not been fully validated for medical applications. For research use only.

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