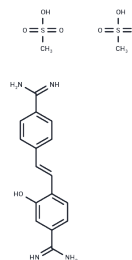


## Hydroxystilbamidine bis(methanesulfonate)

## Chemical Properties

CAS No. :	223769-64-0
Formula:	C <sub>18</sub> H <sub>24</sub> N <sub>4</sub> O <sub>7</sub> S <sub>2</sub>
Molecular Weight:	472.53
Appearance:	no data available
Storage:	keep away from direct sunlight Powder: -20°C for 3 years   In solvent: -80°C for 1 year



## Biological Description

Description	Hydroxystilbamidine bis(methanesulfonate) is a dye capable of binding to both DNA and RNA. It also is a potent inhibitor of cellular ribonucleases.
Targets(IC50)	Others
In vitro	The trypanocidal dye Hydroxystilbamidine bis(methanesulfonate) facilitates mRNA recovery following polysome release with Nonidet P-40 (NP-40), as analyzed by sucrose gradient distribution of detergent-lysed postnuclear supernates [1].
In vivo	Hydroxystilbamidine bis(methanesulfonate) effectively inhibits the plaque-forming cell (PFC) response when administered prior to sheep erythrocytes (SRBC) stimulation. It reduces the plaque formation in treated mice, leading to a significant decrease in PFC levels. However, the suppressive effect diminishes over time, with PFC counts in both Hydroxystilbamidine bis(methanesulfonate)-treated and control groups reverting to baseline levels by day 14 [2].

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.1163 mL	10.5813 mL	21.1627 mL
5 mM	0.4233 mL	2.1163 mL	4.2325 mL
10 mM	0.2116 mL	1.0581 mL	2.1163 mL
50 mM	0.0423 mL	0.2116 mL	0.4233 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

## Reference

- Lizardi PM. Isolation of giant silk fibroin polysomes and fibroin mRNP particles using a novel ribonuclease inhibitor, hydroxystilbamidine. *J Cell Biol.* 1980 Oct;87(1):292-6.
- Folds JD, et al. Immunosuppression by hydroxystilbamidine isethionate, a lysosome-stabilizing, anti-proteolytic, antifungal drug. *Infect Immun.* 1975 Mar;11(3):441-4.

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