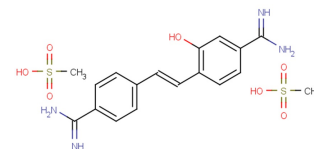


## Hydroxystilbamidine bis(methanesulfonate)

## 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:	472.54
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).



## 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(IC <sub>50</sub> )	Others: None
In vitro	It is found that the trypanocidal dye Hydroxystilbamidine bis(methanesulfonate) permits the recovery of mRNA after polysome released with Nonidet P-40 (NP-40). Sucrose gradient analysis of detergent-lysed postnuclear supernates is used to analyze the size distribution of NP-40-released polysomes [1].
In vivo	Hydroxystilbamidine bis(methanesulfonate) is an effective suppressor of the plaque-forming cell (PFC) response when given before sheep erythrocytes (SRBC) stimulation. Hydroxystilbamidine bis(methanesulfonate) depresses the plaque response of the treated mice. Fewer PFC is observed in Hydroxystilbamidine bis(methanesulfonate)-treated mice, but the level of suppression decreases with time. By day 14, the number of PFC observed in both the Hydroxystilbamidine bis(methanesulfonate) treated mice and the control group is essentially at the background level [2].

## Solubility Information

Solubility	< 1 mg/ml refers to the product slightly soluble or insoluble
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## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.116 mL	10.581 mL	21.162 mL
5 mM	0.423 mL	2.116 mL	4.232 mL
10 mM	0.212 mL	1.058 mL	2.116 mL
50 mM	0.042 mL	0.212 mL	0.423 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. 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.
2. 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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