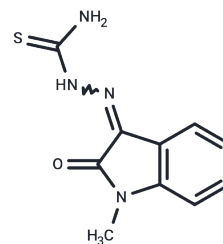


Methisazone

Chemical Properties

CAS No. :	1910-68-5
Formula:	C ₁₀ H ₁₀ N ₄ O ₅
Molecular Weight:	234.28
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



Biological Description

Description	Methisazone is an antiviral agent that acts by inhibiting mRNA and protein synthesis. Methisazone also exhibits inhibitory activity against SARS-CoV-2, with vaccinia virus as its main target.
Targets(IC50)	SARS-CoV, Virus Protease
In vitro	The EC ₅₀ values of Methisazone against six vaccinia virus strains (Copenhagen, WR, NYC, Elstree, IHD, IHD) were 3.3, 0.06, 0.3, 0.5, 0.12, and 0.11 μM, respectively [3].
In vivo	Methisazone (10, 30 mg/kg, once daily for 5 consecutive days) administered intraperitoneally 24-48 hours after VV-IHD viral challenge in female BALB/c mice significantly reduces mortality. The 10 mg/kg dose also delays or reduces viral replication in target organs including the liver, spleen, and kidneys [3].

Solubility Information

Solubility	DMSO: 80 mg/mL (341.47 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	4.2684 mL	21.342 mL	42.684 mL
5 mM	0.8537 mL	4.2684 mL	8.5368 mL
10 mM	0.4268 mL	2.1342 mL	4.2684 mL
50 mM	0.0854 mL	0.4268 mL	0.8537 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.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

- Bhumi Shah, et al. In silico studies on therapeutic agents for COVID-19: Drug repurposing approach. Life Sci. 2020 Jul 1;252:117652.
- Smee DF, et, al. Progress in the discovery of compounds inhibiting orthopoxviruses in animal models. Antivir Chem Chemother. 2008;19(3):115-24.
- Quenelle D C, et al. In vitro and in vivo evaluation of isatin- β -thiosemicarbazone and marboran against vaccinia and cowpox virus infections[J]. Antiviral Research, 2006, 71(1): 24-30.
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