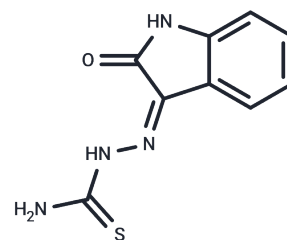


Isatin-β-thiosemicarbazone

Chemical Properties

CAS No. :	27830-79-1
Formula:	C ₉ H ₈ N ₄ O ₂ S
Molecular Weight:	220.25
Appearance:	no data available
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year



Biological Description

Description	Isatin-β-thiosemicarbazone is a potent inhibitor of herpes simplex virus (HSV). isatin-β-thiosemicarbazone exhibits antiviral activity by inhibiting both HSV-1 and HSV-2. isatin-β-thiosemicarbazone is Isatin-β-thiosemicarbazone is an effective anti-poxvirus agent for the treatment of monkeypox, orthopox and cowpox viruses.
Targets(IC50)	HSV
In vitro	Isatin-beta-thiosemicarbazone (IBT) at a concentration of 14 μM inhibited the multiplication of vaccinia virus in HeLa cells. For the first 3 h after infection, viral deoxyribonucleic acid (DNA) was synthesized in the presence of IBT at the same rate as in the control culture.[2]

Solubility Information

Solubility	DMSO: 112.5 mg/mL (510.8 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	4.5403 mL	22.7015 mL	45.403 mL
5 mM	0.9081 mL	4.5403 mL	9.0806 mL
10 mM	0.454 mL	2.2701 mL	4.5403 mL
50 mM	0.0908 mL	0.454 mL	0.9081 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

Meis RJ, et al. Genetic and molecular biological characterization of a vaccinia virus gene which renders the virus dependent on isatin-beta-thiosemicarbazone (IBT). Virology. 1991;182(2):442-454.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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Tel:781-999-4286 E_mail:info@targetmol.com Address:36 Washington Street,Wellesley Hills,MA 02481