

Tropone

Chemical Properties

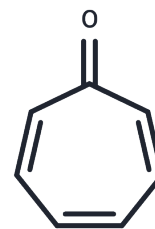
CAS No. : 539-80-0

Formula: C₇H₆O

Molecular Weight: 106.12

Storage: Store at low temperature, Keep away from moisture
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	Tropone (Cycloheptatrienone) is a non-benzene aromatic organic compound antiviral and antifungal. Tropolone derivatives inhibit the replication of HBV at the submicromolar level.
Targets(IC50)	Antiviral, Antifungal

Solubility Information

Solubility	DMSO: 80 mg/mL (753.86 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 3.3 mg/mL (31.1 mM), Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	9.4233 mL	47.1165 mL	94.2329 mL
5 mM	1.8847 mL	9.4233 mL	18.8466 mL
10 mM	0.9423 mL	4.7116 mL	9.4233 mL
50 mM	0.1885 mL	0.9423 mL	1.8847 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

Ying Duan, et al. Bacterial Tropone Natural Products and Derivatives: Overview of their Biosynthesis, Bioactivities, Ecological Role and Biotechnological Potential. Chembiochem. 2020 Sep 1;21(17):2384-2407.

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