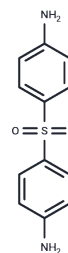


Dapsone

Chemical Properties

CAS No. :	80-08-0
Formula:	C ₁₂ H ₁₂ N ₂ O ₂ S
Molecular Weight:	248.30
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	Dapsone (Sulphadione) has activity against a wide range of bacteria but mainly employed for its actions against mycobacterium leprae.
Targets(IC50)	Reactive Oxygen Species, Antibacterial, Antibiotic, Parasite, ROS

Solubility Information

Solubility	Ethanol: 10 mg/mL (40.27 mM), Sonication is recommended. DMSO: 50 mg/mL (201.37 mM), Sonication is recommended. H ₂ O: < 1 mg/mL (insoluble), (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 2 mg/mL (8.05 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	4.0274 mL	20.1369 mL	40.2739 mL
5 mM	0.8055 mL	4.0274 mL	8.0548 mL
10 mM	0.4027 mL	2.0137 mL	4.0274 mL
50 mM	0.0805 mL	0.4027 mL	0.8055 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

Gengenbacher M, et al. FEMS Microbiol Lett. 2008 Oct;287(1):128-35.

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