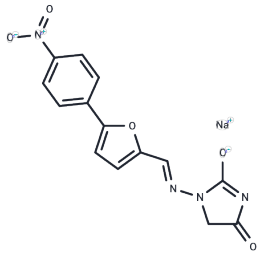
Data Sheet (Cat.No.T0077)

TargetMol

Dantrolene sodium

Chemical Properties



CAS No. : 14663-23-1

Formula: C14H9N4NaO5

Molecular Weight: 336.23

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	Dantrolene sodium (Dantrolene sodium salt) is a skeletal muscle relaxant and can interfere with excitation-contraction coupling in the muscle fiber. It is used for the treatment of spasticity and other neuromuscular abnormalities. Its mechanism of action is may not central, but dantrolene is usually grouped with the central muscle relaxants.
Targets(IC50)	Apoptosis,Calcium Channel,ROS

Solubility Information

Solubility	DMSO: 2.22 mg/mL (6.6 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Saline: 0.22 mg/mL (0.65 mM),Solution. *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.*

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.9742 mL	14.8708 mL	29.7415 mL
5 mM	0.5948 mL	2.9742 mL	5.9483 mL
10 mM	0.2974 mL	1.4871 mL	2.9742 mL
50 mM	0.0595 mL	0.2974 mL	0.5948 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

Paul-Pletzer K, et al. J Biol Chem. 2002 Sep 20;277(38):34918-23.
Bowden G D, Land K M, O'Connor R M, et al. High-throughput screen of drug repurposing library identifies inhibitors of Sarcocystis neurona growth. International Journal for Parasitology: Drugs and Drug Resistance. 2018 Apr；8(1): 137-144
Bowden G D, Land K M, O'Connor R M, et al. High-throughput screen of drug repurposing library identifies inhibitors of Sarcocystis neurona growth[J]. International Journal for Parasitology: Drugs and Drug Resistance. 2018 Apr；8(1): 137-144.

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