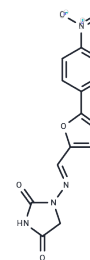


Dantrolene

Chemical Properties

CAS No. :	7261-97-4
Formula:	C ₁₄ H ₁₀ N ₄ O ₅
Molecular Weight:	314.25
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 is a postsynaptic muscle relaxant by inhibiting Ca ²⁺ ions release from sarcoplasmic reticulum stores by antagonizing ryanodine receptors.
Targets(IC50)	Apoptosis,Others,Calcium Channel,Autophagy,ROS

Solubility Information

Solubility	H ₂ O: < 1 mg/mL (insoluble) DMSO: 22.5 mg/mL (71.6 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	3.1822 mL	15.9109 mL	31.8218 mL
5 mM	0.6364 mL	3.1822 mL	6.3644 mL
10 mM	0.3182 mL	1.5911 mL	3.1822 mL
50 mM	0.0636 mL	0.3182 mL	0.6364 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

Diszhazi G , Magyar Z E , Motyan J A , et al. Dantrolene Requires Mg²⁺ and ATP To Inhibit the Ryanodine Receptor[J]. Molecular Pharmacology, 2019, 96(3):mol.119.116475.

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