

Demethylcantharidate disodium

Chemical Properties

CAS No. : 129-67-9

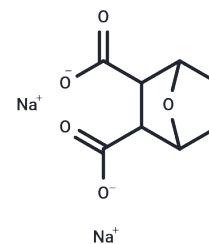
Formula: C₈H₈Na₂O₅

Molecular Weight: 230.13

Storage: Keep away from moisture, Keep away from direct sunlight

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	Demethylcantharidate disodium is an endogenous metabolite that promotes apoptosis in hepatoma cells by inducing endoplasmic reticulum stress and shows favorable anticancer activity against various cancers.
Targets(IC50)	Apoptosis, Endogenous Metabolite
In vitro	Methods: Hepatocellular carcinoma cells were treated with 0-100 μ M demethylcantharidate disodium for 0, 12, 24, 48, or 72 h; separate treatments were also performed at 0, 9, 18, 36 μ M for 24 h. Results: Demethylcantharidate disodium inhibited HCC cell proliferation and increased the levels of cleaved caspase-3, cleaved caspase-9, and the Bax/Bcl-2 ratio in a dose-dependent manner [1].
In vivo	Methods: An in vivo xenograft model of SMMC-7721 hepatocellular carcinoma cells was established and treated with demethylcantharidate disodium. Results: Demethylcantharidate disodium significantly inhibited SMMC-7721 cell-mediated hepatocellular carcinoma tumorigenesis [1].

Solubility Information

Solubility	H ₂ O: 200 mg/mL (869.07 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	4.3454 mL	21.7269 mL	43.4537 mL
5 mM	0.8691 mL	4.3454 mL	8.6907 mL
10 mM	0.4345 mL	2.1727 mL	4.3454 mL
50 mM	0.0869 mL	0.4345 mL	0.8691 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

Ye M, et al. Sodium demethylcantharidate induces apoptosis in hepatocellular carcinoma cells via ER stress. Am J Transl Res. 2019;11(5):3150-3158. Published 2019 May 15.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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