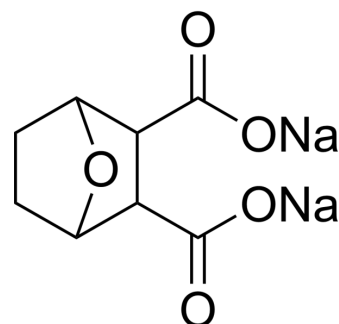


Demethylcantharidate disodium

Cat. No.:	HY-N1443
CAS No.:	129-67-9
Molecular Formula:	C ₈ H ₈ Na ₂ O ₅
Molecular Weight:	230.13
Target:	Endogenous Metabolite; Apoptosis
Pathway:	Metabolic Enzyme/Protease; Apoptosis
Storage:	4°C, sealed storage, away from moisture and light * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light)



SOLVENT & SOLUBILITY

In Vitro	H ₂ O : 33.33 mg/mL (144.83 mM; ultrasonic and warming and heat to 60°C)				
	DMSO : < 1 mg/mL (ultrasonic;warming;heat to 60°C) (insoluble or slightly soluble)				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
	Preparing Stock Solutions	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	
Please refer to the solubility information to select the appropriate solvent.					
In Vivo	1. Add each solvent one by one: PBS Solubility: 50 mg/mL (217.27 mM); Clear solution; Need ultrasonic				

BIOLOGICAL ACTIVITY

Description	Demethylcantharidate disodium, an endogenous metabolite, induces apoptosis in hepatocellular carcinoma cells via ER stress. Demethylcantharidate disodium shows excellent anticancer activity against multiple types of cancer ^[1] .
In Vitro	Demethylcantharidate (0-100 μM; 0, 12, 24, 48 or 72 hours)? disodium inhibits HCC cell proliferation ^[1] . ?Demethylcantharidate (0, 9, 18 or 36 μM; 24 hours) disodium dose dependently increases the levels of cleaved caspase-3, cleaved caspase-9, and Bax/Bcl-2 ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only. Cell Viability Assay ^[1]
	Cell Line: HCC cell lines (SMMC-7721 and Bel-7402)
	Concentration: 0-100 μM

	Incubation Time:	0, 12, 24, 48 or 72 hours
	Result:	Showed anti-proliferative activity in the two HCC cell lines.
	Cell Viability Assay ^[1]	
	Cell Line:	HCC cells
	Concentration:	0, 9, 18 or 36 μ M
	Incubation Time:	24 hours
	Result:	Induced apoptosis in HCC cells via the intrinsic pathway.
In Vivo	Demethylcantharidate disodium significantly decreases hepatocellular carcinoma tumorigenesis of SMMC-7721 cells in vivo [1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.	

REFERENCES

[1]. 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.

Caution: Product has not been fully validated for medical applications. For research use only.

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA