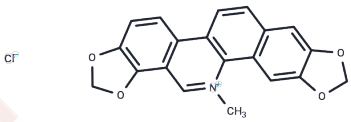
Data Sheet (Cat.No.T0129)

TargetMol

Sanguinarine chloride

Chemical Properties



CAS No. : 5578-73-4

Formula: C20H14ClNO4

Molecular Weight: 367.78

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	Sanguinarine chloride (Pseudochelerythrine chloride), a benzophenanthridine alkaloid, stimulates apoptosis by activating the production of reactive oxygen species (ROS).
Targets(IC50)	Apoptosis,EGFR,Antibacterial,Parasite,Autophagy,VEGFR

Solubility Information

Solubility	DMSO: 2.16 mg/mL (5.87 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.719 mL	13.5951 mL	27.1902 mL
5 mM	0.5438 mL	2.719 mL	5.438 mL
10 mM	0.2719 mL	1.3595 mL	2.719 mL
50 mM	0.0544 mL	0.2719 mL	0.5438 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

Han MH, et al.Toxicol Lett. 2013 Jul 4;220(2):157-66.

Liang X, Cao Y, Duan Z, et al.Discovery of New Small Molecule Inhibitors of the BPTF Bromodomain.Bioorganic Chemistry.2023: 106453.

Liu S, Tao Y, Wu S, et al.Sanguinarine chloride induces ferroptosis by regulating ROS/BACH1/HMOX1 signaling pathway in prostate cancer.Chinese Medicine.2024, 19(1): 1-18.

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