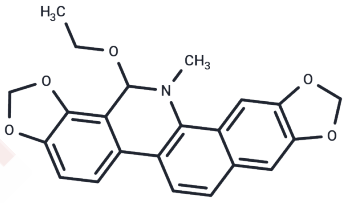
Data Sheet (Cat.No.TN1305)

TargetMol

Ethoxysanguinarine

Chemical Properties



CAS No. : 28342-31-6

Formula: C22H19NO5

Molecular Weight: 377.39

Storage: 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	Ethoxysanguinarine (6-Ethoxydihydrosanguinarine) shows human blood acetylcholinesterase (HuAChE) and human plasma butyrylcholinesterase (HuBuChE) inhibitory activity, with IC50 values of 0.83 +/- 0.04 microM and 4.20 +/- 0.19 microM, respectively.
Targets(IC50)	Apoptosis,AChR

Solubility Information

Solubility	DMSO: 27.5 mg/mL (72.87 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 2 mg/mL (5.3 mM),Sonication is recommended. *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	2.6498 mL	13.2489 mL	26.4978 mL
5 mM	0.530 mL	2.6498 mL	5.2996 mL
10 mM	0.265 mL	1.3249 mL	2.6498 mL
50 mM	0.053 mL	0.265 mL	0.530 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

Acetylcholinesterase and butyrylcholinesterase inhibitory compounds from Chelidonium majus (Papaveraceae). Nat Prod Commun. 2010 Nov;5(11):1751-4.
Zhao W, Xu C, Peng L, et al.cAMP/PKA signaling promotes AKT deactivation by reducing CIP2A expression, thereby facilitating decidualization.Molecular and Cellular Endocrinology.2023: 111946.