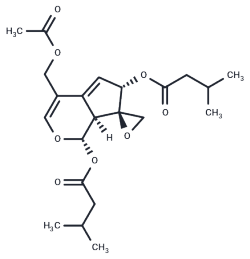
Data Sheet (Cat.No.T4S1999)

TargetMol

Valepotriate

Chemical Properties



CAS No. : 18296-44-1

Formula: C22H30O8

Molecular Weight: 422.47

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	Valepotriate (Valtrate) fraction can have sedative effects and affect behavioral parameters related to recognition memory. Valepotriates, a new class of cytotoxic and antitumor agents, they are very potent cytotoxic agents for the HTC hepatoma cells. Valepotriates may have a potential anxiolytic effect on the psychic symptoms of anxiety.
Targets(IC50)	Apoptosis,HIV Protease

Solubility Information

Solubility	DMSO: 10 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 (4.73 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	2.367 mL	11.8352 mL	23.6703 mL
5 mM	0.4734 mL	2.367 mL	4.7341 mL
10 mM	0.2367 mL	1.1835 mL	2.367 mL
50 mM	0.0473 mL	0.2367 mL	0.4734 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

Bounthanh C , Bergmann C , Beck J P , et al. Valepotriates, a New Class of Cytotoxic and Antitumor Agents[J]. Planta Medica, 1981, 41(01):21-28.

Huang C Y, Nicholson M W, Wang J Y, et al. Population-based high-throughput toxicity screen of human iPSC-derived cardiomyocytes and neurons. Cell Reports. 2022, 39(1): 110643