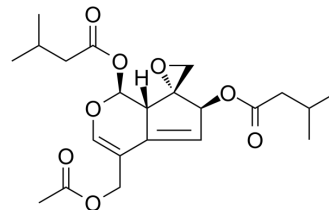


Valepotriate

Cat. No.:	HY-N0718
CAS No.:	18296-44-1
Molecular Formula:	C ₂₂ H ₃₀ O ₈
Molecular Weight:	422.47
Target:	Apoptosis
Pathway:	Apoptosis
Storage:	-20°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (236.70 mM; Need ultrasonic)						
	Preparing Stock Solutions	Solvent Concentration	Mass	1 mg	5 mg	10 mg	
				1 mM	2.3670 mL	11.8352 mL	23.6703 mL
				5 mM	0.4734 mL	2.3670 mL	4.7341 mL
				10 mM	0.2367 mL	1.1835 mL	2.3670 mL
Please refer to the solubility information to select the appropriate solvent.							
In Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.5 mg/mL (5.92 mM); Clear solution						
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: 2.5 mg/mL (5.92 mM); Suspended solution; Need ultrasonic						
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (5.92 mM); Clear solution						

BIOLOGICAL ACTIVITY

Description	Valepotriate can be isolated from Valeriana jatamansi Jones, has anti-epileptic and anti-cancer activities ^{[1][2]} .
In Vivo	Valepotriate showed significant anti-epileptic activity against MES- and PTZ-induced epilepsy at doses of 5, 10, and 20 mg/kg, and ED50 values for MES- and PTZ-induced epilepsy were 7.84 and 7.19 mg/kg, respectively. Furthermore, valepotriate (10 and 20 mg/kg) can significantly prolong sleeping time and shorten the latency time on the pentobarbital sodium-induced sleeping time test. Furthermore, valepotriate (5, 10, and 20 mg/kg) could significantly up-regulate the expression of GABAA, GAD65, and Bcl-2 and down-regulate the expression of caspase-3, but had no significant effect on the expression of GABAB ^[2] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Yan YY, et al. A novel derivative of valepotriate inhibits the PI3K/AKT pathway and causes Noxa-dependent apoptosis in human pancreatic cancer cells. *Acta Pharmacol Sin.* 2020 Feb 11.

[2]. Wu A, et al. Anti-epileptic Effects of Valepotriate Isolated from *Valeriana jatamansi* Jones and Its Possible Mechanisms. *Pharmacogn Mag.* 2017 Jul-Sep;13(51):512-516.

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

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