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Zuschläge

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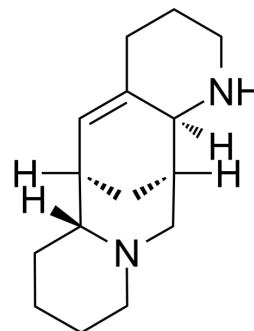
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Aloperine

Cat. No.:	HY-13516
CAS No.:	56293-29-9
Molecular Formula:	C ₁₅ H ₂₄ N ₂
Molecular Weight:	232.36
Target:	Apoptosis; Autophagy; Filovirus; HIV
Pathway:	Apoptosis; Autophagy; Anti-infection
Storage:	4°C, sealed storage, away from moisture
	* In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



SOLVENT & SOLUBILITY

In Vitro	DMSO : 5.56 mg/mL (23.93 mM; ultrasonic and warming and heat to 60°C)				
	Preparing Stock Solutions	Solvent Concentration Mass	1 mg	5 mg	10 mg
		1 mM	4.3037 mL	21.5183 mL	43.0367 mL
		5 mM	0.8607 mL	4.3037 mL	8.6073 mL
		10 mM	0.4304 mL	2.1518 mL	4.3037 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: ≥ 2.08 mg/mL (8.95 mM); Clear solution				
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.08 mg/mL (8.95 mM); Clear solution				
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.08 mg/mL (8.95 mM); Clear solution				

BIOLOGICAL ACTIVITY

Description	Aloperine is an alkaloid in sophora plants such as <i>Sophora alopecuroides</i> L, which has shown anti-cancer, anti-inflammatory and anti-virus properties ^[1] . Aloperine is widely used to treat patients with allergic contact dermatitis eczema and other skin inflammation in China ^[2] . Aloperine induces apoptosis and autophagy in HL-60 cells ^[1] .
In Vitro	Aloperine (1-20 μM; 24 hours) gives growth-inhibitory IC ₅₀ values in cancer cells ranges from 0.04 to 1.36 mM, the IC ₅₀ values in HL-60, U937, K562, EC109, A549 and HepG2 cells are 0.04, 0.27, 0.36, 1.11, 1.18 and 1.36 mM, respectively ^[1] . Aloperine (1-20 μM; 24 hours) induces apoptosis and decreases bcl-2 expression in HL-60 cells ^[1] . Aloperine (20-100 μM; 18 hours) induces autophagy and formation of acidic vacuole in HL-60 cells ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

CUSTOMER VALIDATION

- Int Immunopharmacol. 2021 May 1;97:107720.
- Am J Physiol Cell Physiol. 2023 Sep 4.

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REFERENCES

- [1]. Lin Z, et al. In vitro anti-tumour activities of quinolizidine alkaloids derived from *Sophora flavescens* Ait. Basic Clin Pharmacol Toxicol. 2011 May;108(5):304-9.
- [2]. Yuan XY, et al. Effects and mechanisms of aloperine on 2, 4-dinitrofluorobenzene-induced allergic contact dermatitis in BALB/c mice. Eur J Pharmacol. 2010 Mar 10;629(1-3):147-52.
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Caution: Product has not been fully validated for medical applications. For research use only.

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