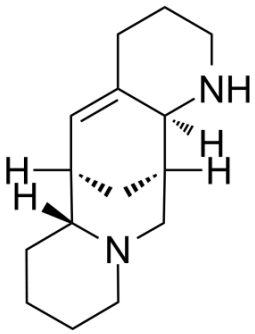
Aloperine

Cat. No.:	HY-13516
CAS No.:	56293-29-9
Molecular Formula:	$C_{15}H_{24}N_2$
Molecular Weight:	232.36
Target:	Apoptosis; Autophagy
Pathway:	Apoptosis; Autophagy
Storage:	Please store the product under the recommended conditions in the COA.



BIOLOGICAL ACTIVITY

Description	Aloperine is an alkaloid in sophora plants such as Sophora alopecuroides 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 mM; 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 mM; 24 hours) induces apoptosis and decreases bcl-2 expression in HL-60 cells[1]. Aloperine (20–100 mM; 18 hours) induces autophagy and formation of acidic vacuole in HL-60 cells[1].

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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