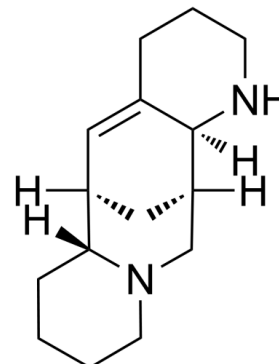


## Data Sheet

<b>Product Name:</b>	Aloperine
<b>Cat. No.:</b>	CS-0007133
<b>CAS No.:</b>	56293-29-9
<b>Molecular Formula:</b>	C <sub>15</sub> H <sub>24</sub> N <sub>2</sub>
<b>Molecular Weight:</b>	232.36
<b>Target:</b>	Apoptosis; Autophagy; Filovirus; HIV
<b>Pathway:</b>	Anti-infection; Apoptosis; Autophagy
<b>Solubility:</b>	DMSO : 10 mg/mL (43.04 mM; ultrasonic and warming and heat to 60°C); H <sub>2</sub> O : 2 mg/mL (8.61 mM; Need ultrasonic)



### BIOLOGICAL ACTIVITY:

Aloperine is an alkaloid in sophora plants such as *Sophora alopecuroides* L, which has shown anti-cancer, anti-inflammatory and anti-virus properties<sup>[1]</sup>. Aloperine is widely used to treat patients with allergic contact dermatitis eczema and other skin inflammation in China<sup>[2]</sup>. Aloperine induces **apoptosis** and **autophagy** in HL-60 cells<sup>[1]</sup>. **In Vitro:** Aloperine (1-20 μM; 24 hours) gives growth-inhibitory IC<sub>50</sub> values in cancer cells ranges from 0.04 to 1.36 mM, the IC<sub>50</sub> 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<sup>[1]</sup>.

Aloperine (1-20 μM; 24 hours) induces apoptosis and decreases bcl-2 expression in HL-60 cells<sup>[1]</sup>.

Aloperine (20–100 μM; 18 hours) induces autophagy and formation of acidic vacuole in HL-60 cells<sup>[1]</sup>.

### 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.

### CAIndexNames:

6,13-Methano-2H-dipyrido[1,2-a:3',2'-e]azocine, 1,3,4,6,6a,7,8,9,10,12,13,13a-dodecahydro-, (6R,6aR,13R,13aS)-

### SMILES:

[H][C@]1(C2)[C@](CCCC3)([H])N3C[C@]2([H])[C@@]4([H])C(CCCN4)=C1

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

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