

# Aloperine

Cat. No. ALK-0073

Lot. No. (See product label)



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## Product Name

Aloperine

## CAS No.

56293-29-9

## Description

Aloperine is an alkaloid in sophora plants such as *Sophora alopecuroides* L, which has shown anti-cancer, anti-inflammatory and anti-virus properties. Aloperine is widely used to treat patients with allergic contact dermatitis, eczema and other skin inflammation in China. Aloperine induces apoptosis and autophagy in HL-60 cells.

## Structural Formula

Aloperine

## MW

232.36

## MF

C<sub>15</sub>H<sub>24</sub>N<sub>2</sub>

## Purity

>98.0%

## Appearance

Solid

## Solubility

DMSO : 5.56 mg/mL (23.93 mM); ultrasonic and warming and heat to 60°C

## Source

Plants > Leguminosae > *Sophora alopecuroides* L

## IC50 & Target

Microbial Metabolite

## Shipping

Room temperature in continental US; may vary elsewhere.

## SMILES

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

## In Vitro

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**FOR RESEARCH OR FURTHER MANUFACTURING USE ONLY**

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Aloperine (1-20  $\mu$ M; 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. Aloperine (1-20  $\mu$ M; 24 hours) induces apoptosis and decreases bcl-2 expression in HL-60 cells. Aloperine (20-100  $\mu$ M; 18 hours) induces autophagy and formation of acidic vacuole in HL-60 cells.

## Storage

4°C, sealed storage, away from moisture

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