Jervine

Cat. No.:	HY-N0836		
CAS No.:	469-59-0		
Molecular Formula:	C ₂₇ H ₃₉ NO ₃		
Molecular Weight:	425.6		
Target:	Hedgehog;	Smo	
Pathway:	Stem Cell/V	Vnt	
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	2 years
		-20°C	1 year

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	Solvent Mass Concentration	1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	2.3496 mL	11.7481 mL	23.4962 mL
	5 mM			
	10 mM			

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Description	Jervine (11-Ketocyclopar teratogenic sterodial alka ^[2] .	nine) is a potent Hedgehog (Hh) inhibitor with an IC ₅₀ of 500-700 nM ^[1] . Jervine is a natural aloid from rhizomes of Veratrum nigrum. Jervine has anti-inflammatory and antioxidant properties
IC ₅₀ & Target	IC50: 500-700 nM (Hedgel	hog) ^[1]
In Vitro	Jervine (40 μM; 6, 12 and Jervine (40 μM; 2 hours) i MCE has not independen Western Blot Analysis ^[1] Cell Line:	24 hours) inhibits Akt phosphorylation ^[3] . nhibits NF-jB activation decreased COX-2 overexpression and induced apoptosis ^[3] . tly confirmed the accuracy of these methods. They are for reference only. HEL and TF1a cells
	Concentration:	40 μΜ

Product Data Sheet

"OH

	Incubation Time:	6, 12 and 24 hours
	Result:	Inhibited Akt phosphorylation.
vo	Jervine (orally; 50-400 n MCE has not independe	mg/kg) exerts 50.4-73.5% anti-inflammatory effects in carrageenan induced paw edema ^[2] . ently confirmed the accuracy of these methods. They are for reference only.
	Animal Model:	Male Sprague Dawley rats (180-200 g) ^[2]
	Dosage:	50, 100, 200 and 400 mg/kg
	Administration:	Orally

CUSTOMER VALIDATION

- Philos Trans R Soc Lond B Biol Sci. 2023 Nov 20;378(1890):20220248.
- Biochem Biophys Res Commun. 2020 Dec 10;533(3):397-403.

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REFERENCES

[1]. Williams JA, et al.Identification of a small molecule inhibitor of the hedgehog signaling pathway: effects on basalcell carcinoma-like lesions. Proc Natl Acad Sci U S A. 2003 Apr 15;100(8):4616-21.

[2]. Dumlu FA, et al. Anti-inflammatory and antioxidant properties of jervine, a sterodial alkaloid from rhizomes of Veratrum album. Phytomedicine. 2019 Mar 1;55:191-199.

[3]. Ghezali L, et al.Cyclopamine and jervine induce COX-2 overexpression in human erythroleukemia cells but only cyclopamine has a pro-apoptotic effect. Exp Cell Res. 2013 Apr 15;319(7):1043-53.

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

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