

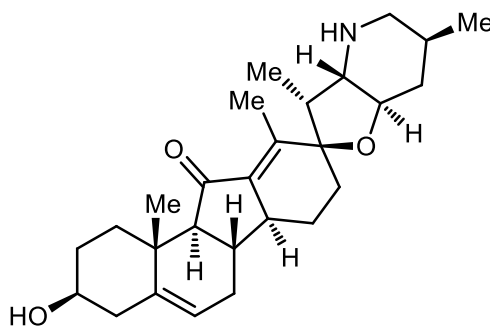
Catalog # 10-2388

Jervine

469-59-0

(3 β ,23 β)-17,23-Epoxy-3-hydroxyveratraman-11-one
11-Ketocyclopamine

Lot # X101710



Inhibitor of Hedgehog signaling ($IC_{50} = 0.5-0.7 \mu M$). Binds directly to Smoothed (Smo)¹. Inhibits the response of target tissues to Sonic hedgehog signaling². Induces COX-2 overexpression in human erythroleukemia cells³.

- 1) Cooper *et al.* (1998), *Teratogen-mediated inhibition of target tissue response to Shh signaling*; *Science*, **280** 1603
- 2) Mistretta *et al.* (2003), *Cyclopamine and jervine in embryonic rat tongue cultures demonstrate a role for Shh signaling in taste papilla development and patterning: fungiform papillae double in number and form in novel locations in dorsal lingual epithelium*; *Dev. Biol.*, **254** 1
- 3) Ghezale *et al.* (2013), *Cyclopamine and jervine induce COX-2 overexpression in human erythroleukemia cells but only cyclopamine has a pro-apoptotic effect*; *Exp. Cell Res.*, **319** 1043

PHYSICAL DATA

Molecular Weight:	425.62
Molecular Formula:	C ₂₇ H ₃₉ NO ₃
Purity:	98% by TLC
	NMR: (Conforms)
Solubility:	DMSO (up to 5 mg/ml), DMF (up to 6 mg/ml), or Ethanol (up to 20 mg/ml)
Physical Description:	White solid
Storage and Stability:	Store as supplied desiccated at -20°C for up to 2 years from the date of purchase. Solutions in DMSO, DMF or ethanol may be stored at -20°C for up to 3 months.

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