

Cyclopamine (11-Deoxojervine)

Catalog No: tcsc0633



Available Sizes

Size: 5mg

Size: 10mg

Size: 50mg

Size: 100mg



Specifications

CAS No:

4449-51-8

Formula:

$C_{27}H_{41}NO_2$

Pathway:

Stem Cell/Wnt

Target:

Hedgehog

Purity / Grade:

>98%

Solubility:

DMSO : 5 mg/mL (12.15 mM; Need ultrasonic and warming); Ethanol : \geq 10 mg/mL (24.29 mM)

Alternative Names:

11-Deoxojervine

Observed Molecular Weight:

411.62

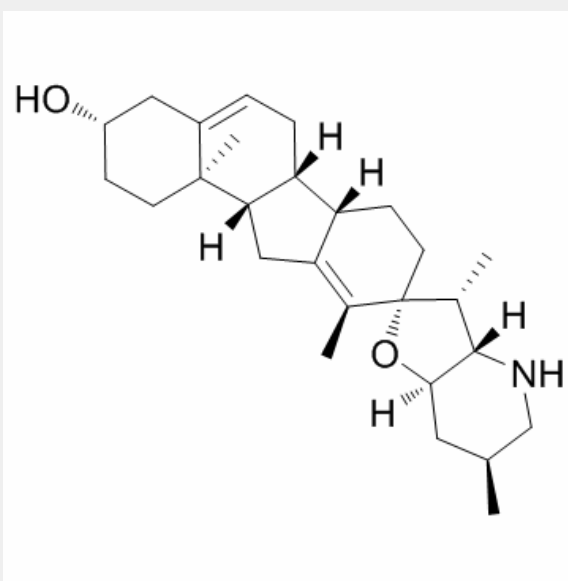
Product Description

Cyclopamine is a **Hedgehog (Hh)** pathway antagonist with **IC₅₀** of 46 nM in the Hh cell assay.

IC50 & Target: IC50: 46 nM (Hedgehog, in Hh cell assay)^[1]

In Vitro: Treatment with small molecule Hh inhibitors such as HhAntag and the natural product Cyclopamine, both binding to Smo, induces tumor remission in a genetic mouse model of medulloblastoma^[1]. Cyclopamine is a Hedgehog (Hh) pathway antagonist. Cyclopamine suppresses cell growth. Cyclopamine (3 μ M) suppression of Hh pathway activity and growth in digestive tract tumour cell lines correlates with expression of PTCHmRNA^[2]. Cyclopamine is a steroidal alkaloid that inhibits Hh signalling through direct interaction with Smo^[3].

In Vivo: Cyclopamine causes durable regression of xenograft tumors. Tumors in Cyclopamine-treated animals, regress completely by 12 days^[2]. Cyclopamine (1.2 mg) treatment blocks tumour formation of human pancreatic adenocarcinoma cells after transplantation into nude mice^[3].



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