

# Cyclopamine (11-Deoxojervine)

## Catalog No: tcsc0633

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

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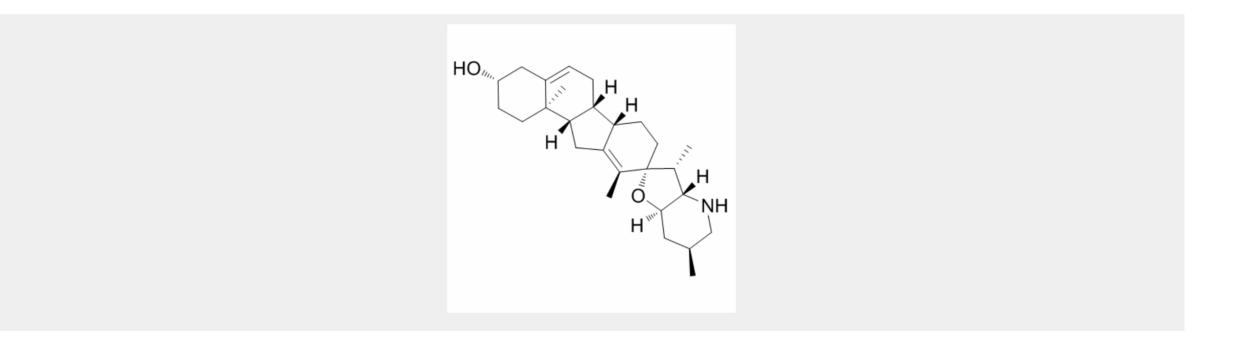
### **Product Description**

Cyclopamine is a **Hedgehog** (**Hh**) pathway antagonist with  $IC_{50}$  of 46 nM in the Hh cell assay.

IC50 & Target: IC50: 46 nM (Hedgehog, in Hh cell assay)<sup>[1]</sup>

*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<sup>[1]</sup>. Cyclopamine is a Hedgehog (Hh) pathway antagonist. Cyclopamine suppresses cell growth. Cyclopamine (3  $\mu$ M) suppression of Hh pathway activity and growth in digestive tract tumour cell lines correlates with expression of PTCHmRNA<sup>[2]</sup>. Cyclopamine is a steroidal alkaloid that inhibits Hh signalling through direct interaction with Smo<sup>[3]</sup>.

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



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