Taiclone®
Quality Guarantee

Web: www.taiclone.com
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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 : ≥ 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)[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 μM) 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].