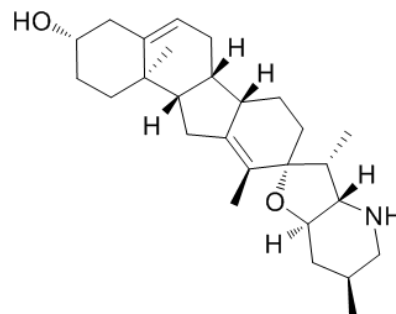


**Product Name** : Cyclopamine  
**Cat. No.** : PC-45147  
**CAS No.** : 4449-51-8  
**Molecular Formula** : C<sub>27</sub>H<sub>41</sub>NO<sub>2</sub>  
**Molecular Weight** : 411.6199  
**Target** : Hedgehog (Hh)  
**Solubility** : DMSO: 0.32 mg/mL (Need ultrasonic)



### Biological Activity

Cyclopamine is a natural steroidal alkaloid that inhibits **hedgehog (Hh)** signaling with IC<sub>50</sub> of 46 nM. Cyclopamine inhibits hedgehog-dependent expression of Pax7 with IC<sub>50</sub> of 24 nM, blocks the response of neural plate explants to recombinant Shh-N; A useful tool in studying the role of Hh in normal development, and as a potential treatment for certain cancers in which Hh is overexpressed.

### References

- Peukert S, et al. Bioorg Med Chem Lett. 2009 Jan 15;19(2):328-31.  
Cooper MK, et al. Science. 1998 Jun 5;280(5369):1603-7.  
Incardona JP, et al. Development. 1998 Sep;125(18):3553-62.

**Caution: Product has not been fully validated for medical applications. Lab Use Only!**

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