
Cyclopamine

产品编号: D50719

CAS: 4449-51-8

分子式: C₂₇H₄₁NO₂

纯度: ≥98%

InChi: InChI=1S/C₂₇H₄₁NO₂/c1-15-11-24-25(28-14-15)17(3)27(30-24)10-8-20-21-6-5-18-12-19(29)7-9-26(18,4)23(21)13-22(20)16(27)2/h5,15,17,19-21,23-25,28-29H,6-14H₂,1-4H₃/t15-,17+,19-,20-,21-,23-,24+,25-,26-,27-/m0/s1

InChi Key: QASFUMOKHFSJGL-LAFRSMQTSA-N

Smiles: C[C@]12CC[C@H](O)CC1=CC[C@@H]1[C@@H]2CC2[C@H]1CC[C@]1(O[C@@H]3C[C@H](C)CN[C@H]3[C@H]1C)C=2C

外观: 固体粉末

作用通路: Endogenous Metabolite

溶解性: DMSO up to 20 mM

保存条件: Store in dry, dark place for one year.

产品介绍: Cyclopamine is a potent and selective inhibitor of the hedgehog signaling with an IC₅₀ ~46 nM, acting as an antagonist of Smoothened. It is a natural product isolated from the corn lily (*Veratrum californicum*). As the hedgehog signaling pathway plays very important roles in embryogenesis and cancer progression, Cyclopamine has been used in stem cell differentiation, such as pancreatic cell differentiation from ESC/iPSC, or treating Hh pathway dependent cancer in vitro and in vivo.