

Product Data Sheet

Product Name: Cyclopamine-KAAD

Cat. No.: GC43346

Chemical Properties

Cas. No. 306387-90-6

SMILES CC1=C2[C@](CC[C@@]31O[C@@](C[C@H](C)CN4CCNC(CCCCCNC(CCC5=CC=CC=C5)=O)=O)([H])[C@]4([H])[C@H]3C)([H])[C@]6([H])CC=C7CC(CC[C@]7(C)[C@@]6([H])C2)=O

Formula C44H63N3O4 M.Wt 698

Solubility Chloroform: Slightly soluble, Methanol: Slightly soluble Storage Store at -20°C

General tips For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT, or blue ice upon request.

Structure



Background

Cyclopamine-KAAD is a potent inhibitor of hedgehog signaling with an IC₅₀ value of 20 nM in a Shh-LIGHT2 assay. It blocks binding of BODIPY-cyclopamine to cells expressing Smoothed (Smo) in a dose-dependent manner. Cyclopamine-KAAD is cell-permeable and binds to SmoA1 to promote its

Caution: Product has not been fully validated for medical applications. For research use only.

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exit from the endoplasmic reticulum. It inhibits the invasion and migration (45.9 and 43.3% inhibition, respectively) of Bel-7402 hepatocarcinoma cells and decreases the expression of nuclear glioma-associated oncogene 1 (Gli1) and cytosolic MMP-9, pERK1, and pERK2 proteins in a dose-dependent manner. Cyclopamine-KAAD also increases TRAIL-mediated cell death in NCH82 and NCH89 human glioblastoma cultures and upregulates expression of the death receptors DR4 and DR5 in LN229 and U251 glioma cells.

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