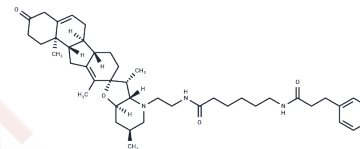


KAAD-Cyclopamine

Chemical Properties

CAS No. : 306387-90-6
 Formula: C44H63N3O4
 Molecular Weight: 697.99
 Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year
 Actual storage temperature shall be subject to the COA.



Biological Description

Description	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 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.
Targets(IC50)	Others, Smo

Solubility Information

Solubility	Chloroform: Slightly soluble Methanol: Slightly soluble (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.4327 mL	7.1634 mL	14.3269 mL
5 mM	0.2865 mL	1.4327 mL	2.8654 mL
10 mM	0.1433 mL	0.7163 mL	1.4327 mL
50 mM	0.0287 mL	0.1433 mL	0.2865 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

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