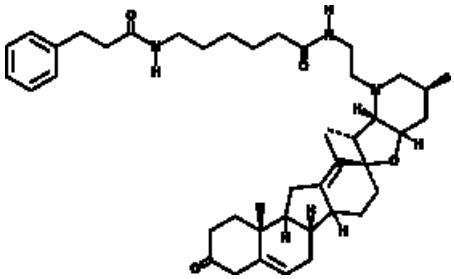
Product Information

Cyclopamine-KAAD

Cat No: 20943 - 500 Âµg



General Data

Shipping: dry ice

Formulation: A solid

Purity: ≥95%

Product Overview

Cyclopamine-KAAD is a potent inhibitor of hedgehog signaling with an IC50 value of 20 nM in a Shh-LIGHT2 assay.{36120} It blocks binding of BODIPY-cyclopamine to cells expressing Smoothened (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.{36121} 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.{36122}

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