Smo Antagonist, SA1

ALTERNATE NAME: 3-(3-(4-Fluorophenyl)-2,5,7-trimethylpyrazolo[1,5a]pyrimidin-6-yl)-N-(4-(furan-2-yl)butan-2-yl)propanamide

CATALOG #: 2154-2, 5

AMOUNT: 2 mg, 5 mg

STRUCTURE:

![Structure](image)

MOLECULAR FORMULA: C_{26}H_{29}FN_{4}O_{2}

MOLECULAR WEIGHT: 448.53

CAS NUMBER: N/A

APPEARANCE: Crystalline solid

SOLUBILITY: DMSO

PURITY: >95% by NMR

STORAGE: Store at -20°C. Protect from air and light

DESCRIPTION: A Smoothened (Smo) antagonist. SA1 inhibits Hh pathway by interacting directly with Smo. Inhibits SAG (Smoothened agonist) activation of Hh signaling in Shh-LIGHT 2 cells (IC_{50} = 3.1 µM). Also inhibits the localization of Smo to cilia. Treatment of Ptch1^{-/-} MEFs with SA1 suppresses the β-galactosidase activity (IC_{50} = 3.8 µM) and inhibits the expression of Gli1 and Ptch1 in ASZ1 cells.


HANDLING: Do not take internally. Wear gloves and mask when handling the product! Avoid contact by all modes of exposure.

FOR RESEARCH USE ONLY! Not to be used in humans.