

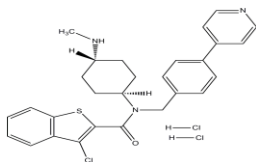
PRODUCT: Smo Agonist, SAG dihydrochloride

ALTERNATE NAME: N-Methyl-N'-(3-pyridinylbenzyl)-N'-(3-chlorobenzo[b]thiophene-2-carbonyl)-1,4-diaminocyclohexane, dihydrochloride

CATALOG #: 2801-1, 5

AMOUNT: 1 mg, 5 mg

STRUCTURE:



MOLECULAR FORMULA: C₂₈H₂₈ClN₃OS · 2HCl

MOLECULAR WEIGHT: 562.98

CAS NUMBER: 364590-63-6

APPEARANCE: Light yellow solid

SOLUBILITY: H₂O (~ 25 mg/ml) DMSO (~ 10 mg/ml)

PURITY: ≥98% by HPLC

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

DESCRIPTION: SAG hydrochloride is the water-soluble analog of SAG (Cat. No.1939). A cell-permeable Smoothened (Smo) agonist that has shown to induce Hedgehog pathway activation and counteract cyclopamine inhibition of Smo. SAG has been reported to act as an activator at low concentrations, but can inhibit Smo at very high concentrations.

REFERENCE: Chen, J.K., *et al.* (2002). *Proc. Natl. Acad. Sci. USA* **99**, 14071-14076.

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

RELATED PRODUCTS:

Cyclopamine (Cat. No. 1578-5)

Cyclopamine-KAAD (Cat. No. 1910-50)

GANT58 (Cat. No. 1812-5, 25)

GANT61 (Cat. No. 1892-5)

GDC-0449 (Cat. No. 1890-5, 25)

Hh Signaling Pathway Antagonist (Cat. No. 1659-1)

DiscoveryPak™ hedgehog Signaling Pathway Antagonists Set (Cat. No. K868-6)

JK-184 (Cat. No. 1726-1)

Purmorphamine (Cat. No. 1672-5)

Robotnikinin (Cat. No. 1923-1)

Tomatidine hydrochloride (Cat. No. 1893-25)

USAGE: **FOR RESEARCH CH USE ONLY! Not to be used in humans**