SAG

Smoothened agonist

Smoothened (Smo) is a transmembrane receptor that relays the Hedgehog (Hh) signal and plays an essential role during embryonic development and tumorigenesis. SAG is a potent cell-permeable benzothiophene compound that modulates the coupling of Smo with its downstream effector by interacting with the Smo heptahelical domain (KD = 59 nM). SAG was shown to induce Hedgehog pathway activation independently of the Hh binding receptor Patched (Ptch) (EC50= ~3 nM in NIH 3T3-derived Shh-LIGHT2 cells) and counteract inhibition of Smo by Cyclopamine (Prod. No. BML-GR334). Smo is reported to act as an activator at low concentrations and as an inhibitor at very high concentrations.

Citations: 60

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Ordering Information

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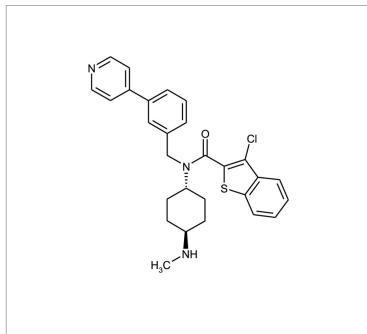
ALX-270-426-M001

1mg

Manuals, SDS & CofA

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- Potent Smoothened (Smo) receptor agonist
- Binds directly to Smo and antagonizes Cyclopamine
- Enhancer of neuronal differentiation of iPSCs into dopaminergic neurons





Handling & Storage

Use/Stability As indicated on product label or CoA when stored as recommended. Stock solutions in

DMSO are stable for at least 1 month when stored at -20°C.

Long Term Storage -20°C

Shipping Ambient Temperature

Regulatory Status RUO - Research Use Only

Product Details

Alternative Name 3-chloro-N-[trans-4-(methylamino)cyclohexyl]-N-[[3-(4-pyridinyl)phenyl]methyl]-

benzo[b]thiophene-2-carboxamide

Appearance White to off-white solid.

CAS 912545-86-9

Couple Target Smoothened

Couple Type Activator, Ligand

Identity Identity determined by MS and NMR.

MW 490.1

Purity ≥95% (HPLC)

Solubility Soluble in DMSO (10mg/ml), sparingly soluble in water (acidification with HCl increases

water solubility).

