

Catalog	Unit
TBI4525 - 1MG	1 mg
TBI4525 - 5MG	5 mg

Product Details

Formal Name: 3-Chloro-N-[trans-4-(methylamino)cyclohexyl]-N-[[3-(4-pyridinyl)phenyl]methyl]-benzo[b]thiophene-2-carboxamide dihydrochloride

Alternate Names: Smoothened agonist

Molecular Formula: C₂₈H₂₈ClN₃OS 2HCl

Formula Weight: 562.98

CAS Number: 912545-86-9

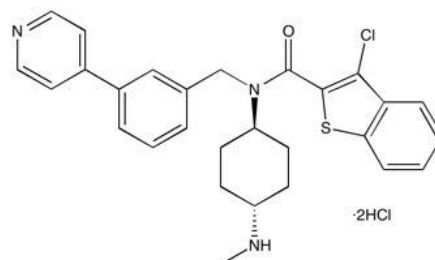
Purity: >98%

Formulation: Powder

Solubility: Soluble in DMSO (up to 20 mg/ml), in DMF (up to 20 mg/ml) or in Ethanol (up to 20 mg/ml).

Storage: -20°C

Stability: ≥ 2 years.



Applications

Smoothened agonist

Functions

SAG (912545-86-9) is a smoothened agonist which binds directly to SMO and can block SMO inhibition by cyclopamine. The conformation of SMO is altered by SAG binding which results in the accumulation of SMO in cilia and activated gene transcription. It should be noted that SAG inhibits hedgehog signaling at concentrations greater than 1 μM (EC₅₀ for SMO activation is ~ 3 nM).

Application Procedures

First dissolved in DMSO (20 mg/ml), ethanol (20 mg/ml), or DMF (20 mg/ml), then diluted to aqueous buffer. Solutions in DMSO, ethanol, or DMF may be stored at -20°C for up to 3 months.

Relative Products

TBI1170	Mitomycin C
TBI1345	E64, Cysteine protease inhibitor
TBI1347	E64d, Cysteine protease inhibitor
TBI2064	Chromomycin A3
TBI2069	Cytochalasin B
TBI2794	5-EDU, DNA Click labeling probe
TBI2071	Cytochalasin D
TBI1286	Bestatin, Aminopeptidase inhibitor
TBI2140	Gemcitabine
TBI2058	Aphidicolin, DNA polymerase Inhibitor

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