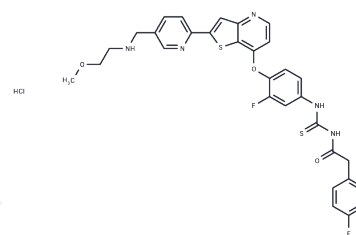


Glesatinib hydrochloride

Chemical Properties

CAS No. :	1123838-51-6
Formula:	C ₃₁ H ₂₈ ClF ₂ N ₅ O ₃ S ₂
Molecular Weight:	656.16
Appearance:	no data available
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year



Biological Description

Description	Glesatinib hydrochloride is an orally active and potent dual inhibitor of MET/SMO. Glesatinib hydrochloride is also a tyrosine kinase inhibitor. It antagonizes P-glycoprotein mediated multidrug resistance (MDR) in NSCLC.
Targets(IC50)	c-Met/HGFR
In vitro	Glesatinib hydrochloride (0.01, 0.1, 0.5, 1 μ M) obviously enhances by several-fold the percentage of apoptotic cells in NSCLC H1299 cells. Glesatinib hydrochloride (0.01-5 μ M; for 72 hours) causes a dose-dependent inhibition of cancer cell growth (IC ₅₀ : 0.08 μ M on NSCLC H1299 cells). Glesatinib hydrochloride has the cytotoxicity to P-gp overexpressing cancer cells KB-C2, SW620/Ad300, HEK293/ABCB1, and their parent cells KB-3-1, SW620, HEK293 cells with the IC ₅₀ s fell between 5 and 10 μ M [1]. Glesatinib hydrochloride (0-40 μ M) stimulates the ATPase activity of P-gp transporters in a dose-dependent manner. Glesatinib hydrochloride (1, 3 μ M; 120 mins) enhances the intracellular [3H]-Paclitaxel accumulation and inhibits [3H]-Paclitaxel efflux in cancer cell lines overexpressing P-gp [2].
In vivo	Glesatinib hydrochloride (15 mg/kg/day; orally; 40 weeks) results in an obvious reduction in tumor size [1].

Solubility Information

Solubility	DMSO: 28 mg/mL (42.67 mM), (< 1 mg/ml refers to the product slightly soluble or insoluble)
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A DRUG SCREENING EXPERT

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.524 mL	7.6201 mL	15.2402 mL
5 mM	0.3048 mL	1.524 mL	3.048 mL
10 mM	0.1524 mL	0.762 mL	1.524 mL
50 mM	0.0305 mL	0.1524 mL	0.3048 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Reference

Morgillo F, et al. Dual MET and SMO Negative Modulators Overcome Resistance to EGFR Inhibitors in Human Nonsmall Cell Lung Cancer. J Med Chem. 2017 Sep 14;60(17):7447-7458.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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