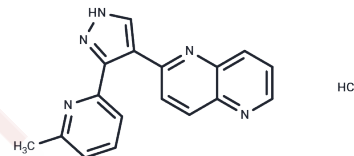


ALK5 Inhibitor II (hydrochloride)

Chemical Properties

CAS No. :	2319939-07-4
Formula:	C ₁₇ H ₁₃ N ₅ ·HCl
Molecular Weight:	323.8
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



Biological Description

Description	ALK5 Inhibitor II is an ALK5 inhibitor. IC ₅₀ : 4, 18, and 23 nM for ALK5 autophosphorylation, TGF-β cellular assay, and ALK5 binding in HepG2 cells, respectively.
Targets(IC ₅₀)	Others,ALK,TGF-beta/Smad
In vitro	In vitro: ALK5 inhibitor II was identified as a cell-permeable, selective inhibitor of the TGF-β type 1 activin like kinase receptor ALK5. ALK5 inhibitor II showed less potent activity (IC ₅₀ s > 16 μM) when tested against a panel of 9 related kinases, including p38 MAPK and GSK3. In addition, when cocrystallized with ALK5, ALK5 inhibitor II was found to be able to bind in the ATP site with the 1,5-naphthyridine N5 interacting with the backbone NH of His-283 [1].

Solubility Information

Solubility	Ethanol: ≤0.5 mg/mL,Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.0883 mL	15.4416 mL	30.8833 mL
5 mM	0.6177 mL	3.0883 mL	6.1767 mL
10 mM	0.3088 mL	1.5442 mL	3.0883 mL
50 mM	0.0618 mL	0.3088 mL	0.6177 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.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

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