

ALK5 Inhibitor II (hydrochloride)

Chemical Properties

CAS No.:	T22560
Formula:	C ₁₇ H ₁₃ N ₅ ·HCl
Molecular Weight:	323.8
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).

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.
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: ≤0.5mg/ml (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.088 mL	15.442 mL	30.883 mL
5 mM	0.618 mL	3.088 mL	6.177 mL
10 mM	0.309 mL	1.544 mL	3.088 mL
50 mM	0.062 mL	0.309 mL	0.618 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

Inhibitors · Natural Compounds · Compound Libraries

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