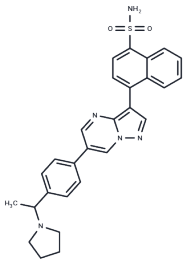
Data Sheet (Cat.No.T10287)

TargetMol

ALK2-IN-2

Chemical Properties



CAS No. : 2254409-25-9

Formula: C28H27N5O2S

Molecular Weight: 497.61

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	ALK2-IN-2 is a potent and selective inhibitor of activin receptor-like kinase 2 (ALK2) with an IC50 of 9 nM, demonstrating 700-fold higher inhibition of ALK2 compared to ALK3.
Targets(IC50)	ALK,TGF-beta/Smad

Solubility Information

Solubility	DMSO: 112.5 mg/mL (226.08 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 4 mg/mL (8.04 mM),Sonication is recommended. *Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.*

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.0096 mL	10.048 mL	20.0961 mL
5 mM	0.4019 mL	2.0096 mL	4.0192 mL
10 mM	0.201 mL	1.0048 mL	2.0096 mL
50 mM	0.0402 mL	0.201 mL	0.4019 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.

Reference

Jiang JK, et al. Discovery of 3-(4-sulfamoylnaphthyl)pyrazolo[1,5-a]pyrimidines as potent and selective ALK2 inhibitors. Bioorg Med Chem Lett. 2018 ; 28(20):3356-3362.

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