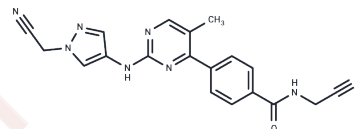


JAK-IN-21

Chemical Properties

CAS No. :	2445499-20-5
Formula:	C19H16N8O
Molecular Weight:	372.38
Storage:	Store at low temperature Powder: -20°C for 3 years In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>



Biological Description

Description	JAK-IN-21 is a selective and potent JAK inhibitor that inhibits JAK1, JAK2, J2V617F and TYK2 with IC50 values of 1.73, 2.04, 109 and 62.9 nM, respectively.
Targets(IC50)	JAK, Tyrosine Kinases
In vitro	JAK-IN-21 (Example 4) exhibits no inhibitory effects on CYPs and shows favorable stability in liver microsomes.[1]
In vivo	JAK-IN-21 (Example 4) (10 mg/kg; Oral gavage; SD rats) demonstrates limited bioavailability, quantified at 1.9%.[1]

Solubility Information

Solubility	DMSO: 60 mg/mL (161.13 mM), 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	2.6854 mL	13.4271 mL	26.8543 mL
5 mM	0.5371 mL	2.6854 mL	5.3709 mL
10 mM	0.2685 mL	1.3427 mL	2.6854 mL
50 mM	0.0537 mL	0.2685 mL	0.5371 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

Zhaokui WAN, et al. Benzamides of pyrazolyl-amino-pyrimidinyl derivatives, and compositions and methods thereof. WO2020119819.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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