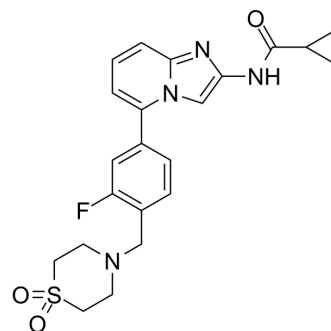


JAK1-IN-8

Cat. No.:	HY-139423		
CAS No.:	1973485-18-5		
Molecular Formula:	C ₂₂ H ₂₃ FN ₄ O ₃ S		
Molecular Weight:	442.51		
Target:	JAK		
Pathway:	Epigenetics; JAK/STAT Signaling; Stem Cell/Wnt		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro	DMSO : 125 mg/mL (282.48 mM; Need ultrasonic)					
		Solvent	Mass	1 mg	5 mg	10 mg
	Preparing Stock Solutions	Concentration				
		1 mM		2.2598 mL	11.2992 mL	22.5984 mL
5 mM		0.4520 mL	2.2598 mL	4.5197 mL		
	10 mM		0.2260 mL	1.1299 mL	2.2598 mL	
Please refer to the solubility information to select the appropriate solvent.						
In Vivo	<ol style="list-style-type: none"> Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.08 mg/mL (4.70 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.08 mg/mL (4.70 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.08 mg/mL (4.70 mM); Clear solution 					

BIOLOGICAL ACTIVITY

Description	JAK1-IN-8, a potent JAK1 inhibitor (IC ₅₀ <500 nM), compound 28, extracted from patent WO2016119700A1 ^[1] .			
IC₅₀ & Target	JAK1 <500 nM (IC ₅₀)	JAK2 500-1000 nM (IC ₅₀)	JAK3 >5000 nM (IC ₅₀)	JAK2 500-1000 nM (IC ₅₀)

REFERENCES

Caution: Product has not been fully validated for medical applications. For research use only.

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