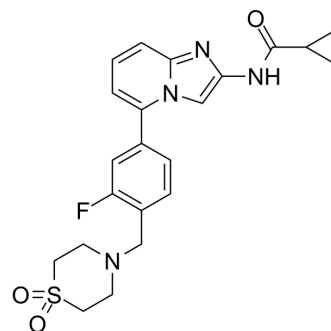


JAK1-IN-8

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:	Please store the product under the recommended conditions in the Certificate of Analysis.



SOLVENT & SOLUBILITY

In Vitro	DMSO : 125 mg/mL (282.48 mM; Need ultrasonic)																								
	Preparing Stock Solutions	<table border="1"> <thead> <tr> <th>Solvent Concentration</th> <th>Mass</th> <th>1 mg</th> <th>5 mg</th> <th>10 mg</th> </tr> </thead> <tbody> <tr> <td>1 mM</td> <td></td> <td>2.2598 mL</td> <td>11.2992 mL</td> <td>22.5984 mL</td> </tr> <tr> <td>5 mM</td> <td></td> <td>0.4520 mL</td> <td>2.2598 mL</td> <td>4.5197 mL</td> </tr> <tr> <td>10 mM</td> <td></td> <td>0.2260 mL</td> <td>1.1299 mL</td> <td>2.2598 mL</td> </tr> </tbody> </table>	Solvent Concentration	Mass	1 mg	5 mg	10 mg	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			
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Please refer to the solubility information to select the appropriate solvent.																									
In Vivo	1. 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																								
	2. 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																								
	3. 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] .			
IC ₅₀ & 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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