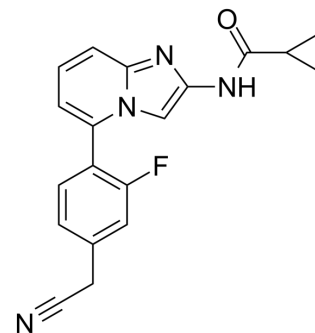


## JAK-IN-14

<b>Cat. No.:</b>	HY-139807		
<b>CAS No.:</b>	1973485-06-1		
<b>Molecular Formula:</b>	C <sub>19</sub> H <sub>15</sub> FN <sub>4</sub> O		
<b>Molecular Weight:</b>	334.35		
<b>Target:</b>	JAK		
<b>Pathway:</b>	Epigenetics; JAK/STAT Signaling; Stem Cell/Wnt		
<b>Storage:</b>	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



### SOLVENT & SOLUBILITY

#### In Vitro

DMSO : 10.5 mg/mL (31.40 mM; ultrasonic and warming and heat to 60°C)

Concentration	Solvent	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	2.9909 mL	14.9544 mL	29.9088 mL
	5 mM	0.5982 mL	2.9909 mL	5.9818 mL
	10 mM	0.2991 mL	1.4954 mL	2.9909 mL

Please refer to the solubility information to select the appropriate solvent.

#### In Vivo

- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline  
Solubility: ≥ 1.05 mg/mL (3.14 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)  
Solubility: 1.05 mg/mL (3.14 mM); Suspended solution; Need ultrasonic
- Add each solvent one by one: 10% DMSO >> 90% corn oil  
Solubility: ≥ 1.05 mg/mL (3.14 mM); Clear solution

### BIOLOGICAL ACTIVITY

#### Description

JAK-IN-14 is a potent and selective JAK1 inhibitor, with an IC<sub>50</sub> of <5 μM. JAK-IN-14 is >8-fold more selective for JAK1 than JAK2 and JAK3 (Patent WO2016119700A1, compound 16)<sup>[1]</sup>.

### REFERENCES

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: [tech@MedChemExpress.com](mailto:tech@MedChemExpress.com)

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA