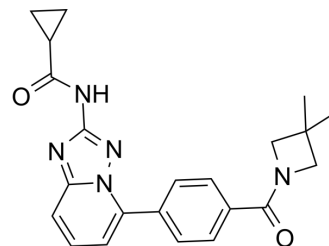


Solcitinib

Cat. No.:	HY-16755		
CAS No.:	1206163-45-2		
Molecular Formula:	C ₂₂ H ₂₃ N ₅ O ₂		
Molecular Weight:	389.45		
Target:	JAK		
Pathway:	Epigenetics; JAK/STAT Signaling; Protein Tyrosine Kinase/RTK; Stem Cell/Wnt		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	2 years
		-20°C	1 year



SOLVENT & SOLUBILITY

In Vitro	DMSO : 16.67 mg/mL (42.80 mM); ultrasonic and warming and heat to 60°C)				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
	Preparing Stock Solutions	1 mM	2.5677 mL	12.8386 mL	25.6772 mL
		5 mM	0.5135 mL	2.5677 mL	5.1354 mL
10 mM		0.2568 mL	1.2839 mL	2.5677 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: 1.67 mg/mL (4.29 mM); Clear solution; Need ultrasonic Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: 1.67 mg/mL (4.29 mM); Clear solution; Need ultrasonic Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: 1.67 mg/mL (4.29 mM); Clear solution; Need ultrasonic 				

BIOLOGICAL ACTIVITY

Description	Solcitinib is an orally active, competitive, potent, selective JAK1 inhibitor, with an IC ₅₀ of 9.8 nM, and 11-, 55- and 23-fold selectivity over JAK2, JAK3 and TYK2, respectively; Solcitinib is used in the research of moderate-to-severe plaque-type psoriasis.
IC₅₀ & Target	JAK1 9.8 nM (IC ₅₀)

In Vitro

Solcitinib is an orally active, competitive, potent, selective JAK1 inhibitor, with an IC₅₀ of 9.8 nM, and 11-, 55- and 23-fold selectivity over JAK2, JAK3 and TYK2, respectively. Solcitinib is used in the research of moderate-to-severe plaque-type psoriasis^[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Ludbrook VJ, et al. Investigation of selective JAK1 inhibitor GSK2586184 for the treatment of psoriasis in a randomized placebo-controlled phase IIa study. Br J Dermatol. 2016 May;174(5):985-95.

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

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