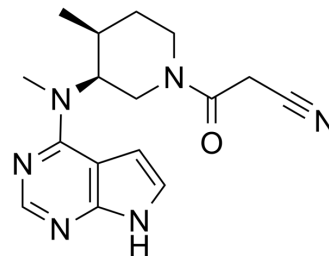


(3S,4S)-Tofacitinib

Cat. No.:	HY-40354C		
CAS No.:	1092578-47-6		
Molecular Formula:	C ₁₆ H ₂₀ N ₆ O		
Molecular Weight:	312.37		
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 : ≥ 100 mg/mL (320.13 mM)
 H₂O : < 0.1 mg/mL (insoluble)
 * "≥" means soluble, but saturation unknown.

Preparing Stock Solutions	Solvent		Mass		
	Concentration		1 mg	5 mg	10 mg
	1 mM		3.2013 mL	16.0067 mL	32.0133 mL
	5 mM		0.6403 mL	3.2013 mL	6.4027 mL
	10 mM		0.3201 mL	1.6007 mL	3.2013 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: ≥ 2.5 mg/mL (8.00 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
 Solubility: ≥ 2.5 mg/mL (8.00 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil
 Solubility: ≥ 2.5 mg/mL (8.00 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

(3S,4S)-Tofacitinib is the less active S-enantiomer of Tofacitinib. Tofacitinib inhibits JAK3 with IC₅₀ of 1 nM.

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

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