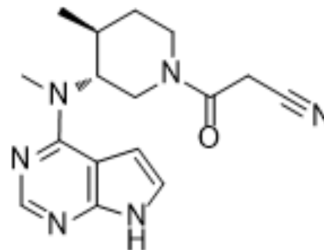


## (3R,4S)-Tofacitinib

<b>Cat. No.:</b>	HY-40354D		
<b>CAS No.:</b>	1092578-46-5		
<b>Molecular Formula:</b>	C <sub>16</sub> H <sub>20</sub> N <sub>6</sub> O		
<b>Molecular Weight:</b>	312.37		
<b>Target:</b>	JAK		
<b>Pathway:</b>	Epigenetics; JAK/STAT Signaling; Protein Tyrosine Kinase/RTK; 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

<b>In Vitro</b>	DMSO : 100 mg/mL (320.13 mM; Need ultrasonic)				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
	<b>Preparing Stock Solutions</b>	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.					
<b>In Vivo</b>	1. 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				

### BIOLOGICAL ACTIVITY

<b>Description</b>	(3R,4S)-Tofacitinib is an less active enantiomer of Tofacitinib. Tofacitinib inhibits JAK3 with IC <sub>50</sub> of 1 nM.
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**Caution: Product has not been fully validated for medical applications. For research use only.**

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