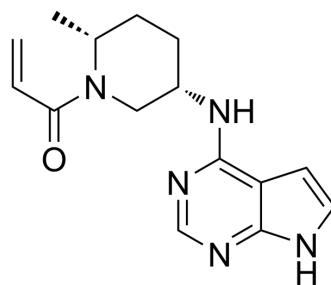


(2R,5S)-Ritlecitinib

Cat. No.:	HY-100754B
CAS No.:	1792180-79-0
Molecular Formula:	C ₁₅ H ₁₉ N ₅ O
Molecular Weight:	285.34
Target:	JAK
Pathway:	Epigenetics; JAK/STAT Signaling; Stem Cell/Wnt
Storage:	4°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



SOLVENT & SOLUBILITY

In Vitro	DMSO : 220 mg/mL (771.01 mM; Need ultrasonic)				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
	Preparing Stock Solutions	1 mM	3.5046 mL	17.5230 mL	35.0459 mL
		5 mM	0.7009 mL	3.5046 mL	7.0092 mL
		10 mM	0.3505 mL	1.7523 mL	3.5046 mL
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: ≥ 5.5 mg/mL (19.28 mM); Clear solution				
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 5.5 mg/mL (19.28 mM); Clear solution				
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 5.5 mg/mL (19.28 mM); Clear solution				

BIOLOGICAL ACTIVITY

Description	(2R,5S)-Ritlecitinib ((2R,5S)-PF-06651600) is a potent and selective JAK3 inhibitor (IC ₅₀ =144.8 nM) extracted from patent US20150158864A1, example 68 ^[1] .
IC ₅₀ & Target	JAK3 144.8 nM (IC ₅₀)

REFERENCES

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

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