Acumapimod

Cat. No.:	HY-16715		
CAS No.:	836683-15-9)	
Molecular Formula:	C ₂₂ H ₁₉ N ₅ O ₂		
Molecular Weight:	385		
Target:	p38 MAPK; Autophagy		
Pathway:	MAPK/ERK Pathway; Autophagy		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	2 years
		-20°C	1 year

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In Vitro	DMSO : ≥ 50 mg/mL (129.87 mM) * "≥" means soluble, but saturation unknown.						
	Preparing Stock Solutions	Solvent Mass Concentration	1 mg	5 mg	10 mg		
		1 mM	2.5974 mL	12.9870 mL	25.9740 mL		
		5 mM	0.5195 mL	2.5974 mL	5.1948 mL		
	10 mM	0.2597 mL	1.2987 mL	2.5974 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: ≥ 2.5 mg/mL (6.49 mM); Clear solution						
	 Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (6.49 mM); Clear solution 						
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (6.49 mM); Clear solution						

Description	Acumapimod (BCT197) is an orally active p38 MAP kinase inhibitor, with an IC $_{50}$ of less than 1 μM for p38α.				
IC ₅₀ & Target	IC50: less than 1 μM (p38α) ^[1]				
In Vitro	Acumapimod is an inhibitor of p38 α with an IC ₅₀ value of less than 1 μ M. MCE has not independently confirmed the accuracy of these methods. They are for reference only.				

≡N

ΝH₂

In Vivo

Acumapimod is an oral low-molecular-weight p38 inhibitor currently in development for the treatment of several inflammatory conditions, including chronic obstructive pulmonary disease (COPD). Intermittent short-term dosing of Acumapimod (75 mg on days 1 and 6) shows a marked improvement in lung function in COPD patients^[2]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Norman P, et al. Investigational p38 inhibitors for the treatment of chronic obstructive pulmonary disease. Expert Opin Investig Drugs. 2015 Mar;24(3):383-92.

[2]. De Buck S, et al. Population PK-PD Model for Tolerance Evaluation to the p38 MAP Kinase Inhibitor BCT197. CPT Pharmacometrics Syst Pharmacol. 2015 Dec;4(12):691-700.

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

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