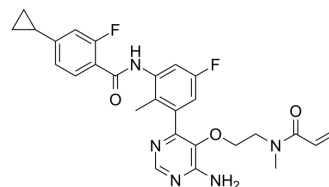


Remibrutinib

Cat. No.:	HY-128757		
CAS No.:	1787294-07-8		
Molecular Formula:	C ₂₇ H ₂₇ F ₂ N ₅ O ₃		
Molecular Weight:	507.53		
Target:	Btk		
Pathway:	Protein Tyrosine Kinase/RTK		
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 : 125 mg/mL (246.29 mM; Need ultrasonic)					
		Solvent Concentration	Mass	1 mg	5 mg	10 mg
	Preparing Stock Solutions	1 mM		1.9703 mL	9.8516 mL	19.7033 mL
		5 mM		0.3941 mL	1.9703 mL	3.9407 mL
10 mM			0.1970 mL	0.9852 mL	1.9703 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: ≥ 2.08 mg/mL (4.10 mM); Clear solution					
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.08 mg/mL (4.10 mM); Clear solution					
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.08 mg/mL (4.10 mM); Clear solution					

BIOLOGICAL ACTIVITY

Description	Remibrutinib, is a potent and orally active bruton tyrosine kinase (BTK) inhibitor with an IC ₅₀ value of 1 nM. Remibrutinib inhibits BTK activity with an IC ₅₀ value of 0.023 μM in blood ^[1] . Remibrutinib has the potential for Chronic urticaria (CU) treatment ^[2] .
IC ₅₀ & Target	IC50: 1 nM (BTK) ^[1]
In Vitro	In a biochemical enzyme assay, Remibrutinib (example 6) inhibits Btk enzymatic activity with an IC ₅₀ value of 1 nM ^[1] .

In vitro B cell activation assay, Remibrutinib inhibits Btk enzymatic activity in blood with an IC₅₀ value of 0.023 μM, the whole blood is collected from the abdominal aorta of anaesthetized adult male Lewis rats^[1].
MCE has not independently confirmed the accuracy of these methods. They are for reference only.

CUSTOMER VALIDATION

- Blood Adv. 2022 Jul 7;bloodadvances.2022007952.
- ACS Pharmacol Transl Sci. 2023 Feb 10.
- Biomed Chromatogr. 2023 Aug 31;e5737.

See more customer validations on www.MedChemExpress.com

REFERENCES

- [1]. Daniela Angst, et al. Novel amino pyrimidine derivatives. Patent WO2015079417A1.
- [2]. Kolkhir P, et al. New treatments for chronic urticaria. Ann Allergy Asthma Immunol. 2019 Aug 23.
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Caution: Product has not been fully validated for medical applications. For research use only.

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