Bezuclastinib

Cat. No.: CAS No.: Molecular Formula: Molecular Weight: Target: Pathway:	HY-145557 1616385-51-3 C ₁₉ H ₁₇ N ₅ O 331.37 c-Kit Protein Tyrosine Kinase/RTK	
Storage:	4°C, sealed storage, away from moisture and light * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light)	

SOLVENT & SOLUBILITY

		Mass Solvent Concentration	1 mg	5 mg	10 mg
	Preparing Stock Solutions	1 mM	3.0178 mL	15.0889 mL	30.1777 mL
	Stock Solutions	5 mM	0.6036 mL	3.0178 mL	6.0355 mL
		10 mM	0.3018 mL	1.5089 mL	3.0178 mL

BIOLOGICAL ACTI	VITY					
Description	Bezuclastinib (CGT9486) is an orally active, highly selective tyrosine kinase inhibitor with potent activity against KIT D816V. Bezuclastinib can be used for the research of nonadvanced systemic mastocytosis (NonAdvSM) ^[1] .					
IC ₅₀ & Target	c-Kit <1 μΜ (IC ₅₀)	c-kit D816V <1 μΜ (IC ₅₀)				
In Vivo	Bezuclastinib (25 mg/kg, p.o., 3 days) shows a brain:plasma ratio of 0.07 in rats ^[2] .					
	Pharmacokinetic Analysis in Rats ^[2]					
	Route	Dose (mg/kg)	t _{1/2} (h)	C _{max} (ng/mL)	AUC _{last} (h*ng/mL)	
	p.o.	25	2.8	2592±364	21509±2558	
	MCE has not independently confirmed the accuracy of these methods. They are for reference only.					



REFERENCES

[1]. Guarnieri A, et al. Preclinical Data with KIT D816V Inhibitor Bezuclastinib (CGT9486) Demonstrates High Selectivity and Minimal Brain Penetrance. Blood. 2021, 138: 4595.

[2]. Guarnieri A, et al. Preclinical data identifies bezuclastinib as a differentiated KIT inhibitor with unique selectivity to KIT D816V and minimal evidence of brain penetration. MOLECULAR CANCER THERAPEUTICS. 2021, 20(12).

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

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