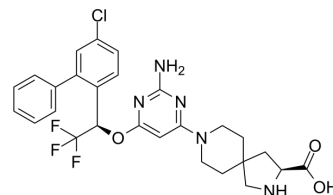


Rodatristat

Cat. No.:	HY-120083
CAS No.:	1673568-73-4
Molecular Formula:	C ₂₇ H ₂₇ ClF ₃ N ₅ O ₃
Molecular Weight:	561.98
Target:	5-HT Receptor; Tryptophan Hydroxylase
Pathway:	GPCR/G Protein; Neuronal Signaling; Metabolic Enzyme/Protease
Storage:	<div> Powder -20°C 3 years </div> <div> 4°C 2 years </div> <div> In solvent -80°C 6 months </div> <div> -20°C 1 month </div>



BIOLOGICAL ACTIVITY

Description	Rodatristat (KAR5417) is a potent tryptophan hydroxylase 1 (TPH1) and TPH2 inhibitor with IC ₅₀ s value of 33 nM and 7 nM, respectively, and shows robust reduction of intestinal serotonin (5-HT) levels in mice ^[1] .		
IC ₅₀ & Target	TPH1 33 nM (IC ₅₀)	TPH2 7 nM (IC ₅₀)	serotonin
In Vivo	Rodatristat (10-50 mg/kg; oral administration; mice) treatment decreases intestinal 5-HT concentrations at 50 mg/kg, their efficacy drop off significantly at the lower 10 mg/kg dose ^[1] .		
	MCE has not independently confirmed the accuracy of these methods. They are for reference only.		
	Animal Model:	Mice ^[1]	
	Dosage:	10 mg/kg and 50 mg/kg	
	Administration:	Oral administration	
	Result:	Decreased intestinal 5-HT concentrations at 50 mg/kg, their efficacy dropped off significantly at the lower 10 mg/kg dose.	

REFERENCES

[1]. Goldberg DR, et al. Optimization of spirocyclic proline tryptophan hydroxylase-1 inhibitors. Bioorg Med Chem Lett. 2017 Feb 1;27(3):413-419.

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA