Iclepertin

MedChemExpress

Cat. No.:	HY-138935			
CAS No.:	1421936-85-7			
Molecular Formula:	$C_{20}H_{18}F_{6}N_{2}O_{5}S$			
Molecular Weight:	512.42			
Target:	GlyT			
Pathway:	Membrane Transporter/Ion Channel; Neuronal Signaling			
Storage:	Powder	-20°C	3 years	
		4°C	2 years	
	In solvent	-80°C	6 months	
		-20°C	1 month	

SOLVENT & SOLUBILITY

In Vitro

Preparing Stock Solutions	Mass Solvent Concentration	1 mg	5 mg	10 mg
	1 mM	1.9515 mL	9.7576 mL	19.5152 mL
	5 mM	0.3903 mL	1.9515 mL	3.9030 mL
	10 mM	0.1952 mL	0.9758 mL	1.9515 mL

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIV	ТҮ		
Description	Iclepertin (BI-425809) is a potent, selective and orally active glycine transporter 1 (GlyT1) inhibitor. Iclepertin is inactive against GlyT2. Iclepertin can be used for Alzheimer disease and schizophrenia research ^[1] .		
IC ₅₀ & Target	GLT1 5.2 mM (IC ₅₀ , In rat primary neurons)	GLT1 5 nM (IC ₅₀ , In human SK-N-MC cells)	
In Vitro	Iclepertin inhibits GlyT1 with the IC ₅₀ values of 5.2 nM in rat primary neurons and 5.0 nM in human SK-N-MC cells ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.		
In Vivo	Single oral administration of Iclepertin induced a dose-dependent increase of glycine cerebrospinal fluid (CSF) levels. Oral administration of Iclepertin in rats induced a dose⊠dependent increase of glycine CSF levels from 30% (0.2 mg/kg, not significant) to 78% (2 mg/kg), relative to vehicle ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.		

REFERENCES

[1]. Holger Rosenbrock, et al. Evaluation of Pharmacokinetics and Pharmacodynamics of BI 425809, a Novel GlyT1 Inhibitor: Translational Studies. Clin Transl Sci. 2018 Nov;11(6):616-623.

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

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