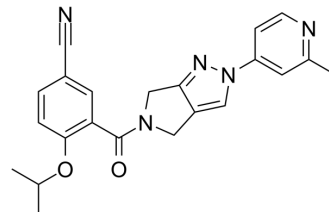


GlyT1 Inhibitor 1

Cat. No.:	HY-112432		
CAS No.:	1820934-93-7		
Molecular Formula:	C ₂₂ H ₂₁ N ₅ O ₂		
Molecular Weight:	387.43		
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

DMSO : 25 mg/mL (64.53 mM; ultrasonic and warming and heat to 60°C)

Concentration	Mass		
	1 mg	5 mg	10 mg
1 mM	2.5811 mL	12.9056 mL	25.8111 mL
5 mM	0.5162 mL	2.5811 mL	5.1622 mL
10 mM	0.2581 mL	1.2906 mL	2.5811 mL

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

BIOLOGICAL ACTIVITY

Description	GlyT1 Inhibitor 1 is a potent and selective GlyT1 inhibitor with an IC ₅₀ of 38 nM for rGlyT1 ^[1] . Antipsychotic activity ^[1] .
IC₅₀ & Target	rGlyT1 38 nM (IC ₅₀)
In Vivo	GlyT1 Inhibitor 1 (Compound 46) demonstrates in vivo efficacy in a rat novel object recognition (NOR) assay after oral dosing at 0.1, 1, and 3 mg/kg ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Santora VJ, et al. Design and Synthesis of Novel and Selective Glycine Transporter-1 (GlyT1) Inhibitors with Memory Enhancing Properties. J Med Chem. 2018 Jul 26;61(14):6018-6033.

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