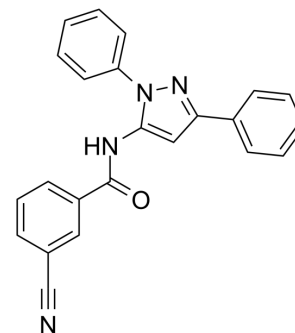


CDPPB

Cat. No.:	HY-14569		
CAS No.:	781652-57-1		
Molecular Formula:	C ₂₃ H ₁₆ N ₄ O		
Molecular Weight:	364.4		
Target:	mGluR		
Pathway:	GPCR/G Protein; Neuronal Signaling		
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 : 100 mg/mL (274.42 mM; Need ultrasonic)				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
	Preparing Stock Solutions	1 mM	2.7442 mL	13.7212 mL	27.4424 mL
		5 mM	0.5488 mL	2.7442 mL	5.4885 mL
10 mM		0.2744 mL	1.3721 mL	2.7442 mL	
Please refer to the solubility information to select the appropriate solvent.					
In Vivo	1. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 5 mg/mL (13.72 mM); Clear solution				

BIOLOGICAL ACTIVITY

Description	CDPPB is a potent, selective and brain penetrant positive allosteric modulator of the metabotropic glutamate receptor subtype 5 (mGluR5), with an EC ₅₀ of 27 nM in Chinese hamster ovary cells expressing human mGluR5. CDPPB may provide an approach for development of antipsychotic agents ^[1] .
IC₅₀ & Target	mGluR5 27 nM (EC50)

REFERENCES

[1]. Kinney GG, et, al. A novel selective positive allosteric modulator of metabotropic glutamate receptor subtype 5 has in vivo activity and antipsychotic-like effects in rat

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

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