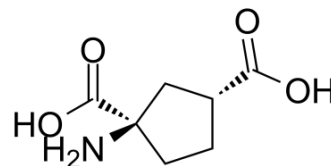


## cis-ACPD

<b>Cat. No.:</b>	HY-19434A
<b>CAS No.:</b>	477331-06-9
<b>Molecular Formula:</b>	C <sub>7</sub> H <sub>11</sub> NO <sub>4</sub>
<b>Molecular Weight:</b>	173.17
<b>Target:</b>	iGluR; mGluR
<b>Pathway:</b>	Membrane Transporter/Ion Channel; Neuronal Signaling; GPCR/G Protein
<b>Storage:</b>	Please store the product under the recommended conditions in the Certificate of Analysis.



## BIOLOGICAL ACTIVITY

<b>Description</b>	cis-ACPD is a potent agonist of NMDA receptor, with an IC <sub>50</sub> of 3.3 μM. cis-ACPD is also a selective agonist of group II mGluR, with EC <sub>50</sub> s of 13 μM and 50 μM for mGluR2 and mGluR4, respectively <sup>[1][2]</sup> .		
<b>IC<sub>50</sub> &amp; Target</b>	NMDA 3.3 μM (IC <sub>50</sub> )	mGluR2 13 μM (EC <sub>50</sub> )	mGluR4 50 μM (EC <sub>50</sub> )
<b>In Vitro</b>	cis-ACPD is a selective group II mGluR agonist, with EC <sub>50</sub> s of 13, 50, >300 and >300 μM for mGluR2, mGluR4, mGluR1 and mGluR5, respectively <sup>[2]</sup> . cis-ACPD (1-1000 μM; 60 min) stimulates hydrolysis of <sup>3</sup> H-phosphoinositide <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.		
<b>In Vivo</b>	cis-ACPD (1-1000 mg/kg; i.p.) produces dose-related convulsions in rats <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.		

## REFERENCES

[1]. Schoepp DD, et, al. In vitro and in vivo pharmacology of trans- and cis-(+)-1-amino-1,3-cyclopentanedicarboxylic acid: dissociation of metabotropic and ionotropic excitatory amino acid receptor effects. *J Neurochem.* 1991 May; 56(5):1789-96.

[2]. Conti P, et, al. Synthesis and pharmacology of 3-hydroxy-delta2-isoxazoline-cyclopentane analogues of glutamic acid. *Farmaco.* 2002 Nov; 57(11): 889-95.

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

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