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DATASHEET

CDPPB

Product overview

Name	CDPPB
Cat No	HB0175
Biological action	PAM
Purity	>98%
Description	Selective mGlu ₅ positive allosteric modulator

Images



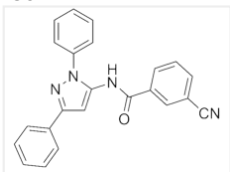
Biological Data

Biological description	CDPPB is a selective mGlu ₅ receptor positive allosteric modulator ($EC_{50} = 27$ nM for human mGlu ₅ receptor). It shows anti-psychotic and cognitive enhancing actions. CDPPB is blood-brain barrier permeable.
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Solubility & Handling

Storage instructions	+4 °C
Solubility overview	Soluble in DMSO (75mM)
Important	This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not for human or veterinary use.

Chemical Data

Chemical name	3-Cyano- <i>N</i> -(1,3-diphenyl-1 <i>H</i> -pyrazol-5-yl)benzamide
Molecular Weight	364.4
Chemical structure	

Molecular Formula	C ₂₃ H ₁₆ N ₄ O
CAS Number	781652-57-1

Chemical name	3-Cyano- <i>N</i> -(1,3-diphenyl-1 <i>H</i> -pyrazol-5-yl)benzamide
PubChem identifier	11245456
SMILES	<chem>C1=CC=C(C=C1)C2=NN(C(=C2)NC(=O)C3=CC=CC(=C3)C#N)C4=CC=CC=C4</chem>
Source	Synthetic
InChi	InChI=1S/C23H16N4O/c24-16-17-8-7-11-19(14-17)23(28)25-22-15-21(18-9-3-1-4-10-18)26-27(22)20-12-5-2-6-13-20/h1-15H,(H,25,28)
InChiKey	BKUIZWILNWHFHD-UHFFFAOYSA-N
Appearance	White solid

References

A novel selective positive allosteric modulator of metabotropic glutamate receptor subtype 5 has in vivo activity and antipsychotic-like effects in rat behavioral models.

Kinney GG *et al* (2005) J Pharmacol Exp Ther 313(1)

PubMedID [15608073](#)

Effects of a metabotropic glutamate receptor 5 positive allosteric modulator, CDPBP, on spatial learning task performance in rodents.

Fowler SW *et al* (2013) Neurobiol Learn Mem 99

PubMedID [23137441](#)

Differential effects of the mGluR5 positive allosteric modulator CDPBP in the cortex and striatum following repeated administration.

Parmentier-Batteur S *et al* (2012) Neuropharmacology 62(3)

PubMedID [21112344](#)
