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Company Registration No. 642982



DATASHEET

CDPPB

Product overview

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

Images



Biological Data

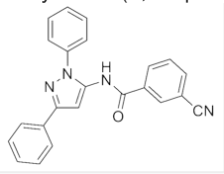
Biological description	CDPPB is a selective mGlu ₅ receptor positive allosteric modulator (EC ₅₀ = 27 nM for human mGlu ₅ receptor). It shows anti-psychotic and cognitive enhancing actions. CDPPB is blood-brain barrier permeable.
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Solubility & Handling

Solubility overview	Soluble in DMSO (75mM)
Storage instructions	+4 °C
Storage of solutions	Prepare and use solutions on the same day if possible. Store solutions at -20 °C for up to one month if storage is required. Equilibrate to RT and ensure the solution is precipitate free before use.
Shipping Conditions	Stable for ambient temperature shipping. Follow storage instructions on receipt.
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-N-(1,3-diphenyl-1H-pyrazol-5-yl)benzamide
Molecular Weight	364.4
Chemical structure	<input type="text"/>

Chemical name	3-Cyano- <i>N</i> -(1,3-diphenyl-1 <i>H</i> -pyrazol-5-yl)benzamide
	
Molecular Formula	C ₂₃ H ₁₆ N ₄ O
CAS Number	781652-57-1
PubChem identifier	11245456
SMILES	C1=CC=C(C=C1)C2=NN(C(=C2)NC(=O)C3=CC=CC(=C3)C#N)C4=CC=CC=C4
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, CDPPB, 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 CDPPB in the cortex and striatum following repeated administration.

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

PubMedID [21112344](#)