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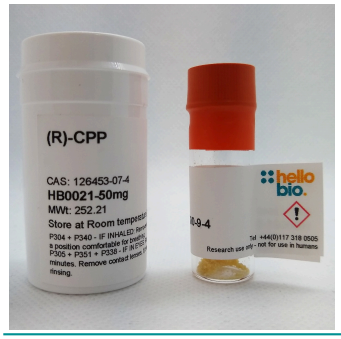
DATASHEET

(R)-CPP

Product overview

Name	(R)-CPP
Cat No	HB0021
Biological action	Antagonist
Customer comments	*Good quality and good price* **Verified customer, Seoul National University**
Description	Potent NMDA receptor antagonist

Images



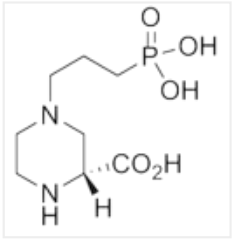
Biological Data

Biological description	Potent NMDA receptor antagonist. More active enantiomer of (RS)-CPP. Selective for GluN2A subtypes over GluN2B, GluN2C and GluN2D subtypes (K_i values are 41 nM, 0.27, 0.63 and 1.99 μM respectively). Blocks NMDA receptor-mediated EPSCs. Shows antinociceptive effect. Active in vivo.

Solubility & Handling

Solubility overview	Soluble in water (100mM)
Storage instructions	Room temperature (desiccate)
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-((*R*)-2-Carboxypiperazin-4-yl)-propyl-1-phosphonic acid
Molecular Weight	252.21
Chemical structure	
Molecular Formula	$C_8H_{17}N_2O_5P$
CAS Number	126453-07-4
PubChem identifier	6603754
SMILES	C1CN(C[C@@H](N1)C(=O)O)CCCP(=O)(O)O
InChi	InChI=1S/C8H17N2O5P/c11-8(12)7-6-10(4-2-9-7)3-1-5-16(13,14)15/h7,9H,1-6H2,(H,11,12)(H2,13,14,15)/t7-/m1/s1
InChiKey	CUVGUPIVTLGRGI-SSDOTTSWSA-N
Formulation	White solid

References

Structure-activity analysis of a novel NR2C/NR2D-preferring NMDA receptor antagonist: 1-(phenanthrene-2-carbonyl) piperazine-2,3-dicarboxylic acid.

Feng B *et al* (2004) Br J Pharmacol 141(3)
PubMedID 14718249

Long-term potentiation promotes proliferation/survival and neuronal differentiation of neural stem/progenitor cells.

Cho T *et al* (2013) PLoS One 8(10)
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Sertindole restores attentional performance and suppresses glutamate release induced by the NMDA receptor antagonist CPP.

Carli M *et al* (2011) Psychopharmacology (Berl) 214(3)
PubMedID 21049266