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DATASHEET

(RS)-CPP

Product overview

Name	(RS)-CPP
Cat No	HB0036
Biological action	Antagonist
Description	Potent, selective, competitive NMDA receptor antagonist

Images

Biological Data

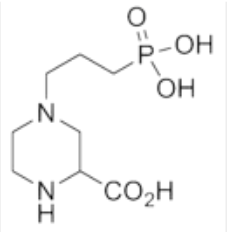
Biological description	Potent, selective and competitive NMDA receptor antagonist which reversibly binds to the glutamate binding site. Crosses the blood brain barrier and is active in vivo. Shows various effects (e.g. supresses seizure activity, interferes with addiction paradigms, blocks LTP and LTD and impairs learning and memory). (R)-CPP also available.

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	(*RS*)-3-(2-Carboxypiperazin-4-yl)-propyl-1-phosphonic acid
Molecular Weight	252.21
Chemical structure	



Molecular Formula	$C_8H_{17}N_2O_5P$
CAS Number	100828-16-8
PubChem identifier	1228
SMILES	C1CN(CC(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)
InChiKey	CUVGUPIVTLGRGI-UHFFFAOYSA-N
MDL number	MFCD00055136

References

CPP, a new potent and selective NMDA antagonist. Depression of central neuron responses, affinity for [3H]D-AP5 binding sites on brain membranes and anticonvulsant activity.

Davies J *et al* (1986) Brain Res 382(1)
PubMedID 2876749

Action of 3-((+/-)-2-carboxypiperazin-4-yl)-propyl-1-phosphonic acid (CPP): a new and highly potent antagonist of N-methyl-D-aspartate receptors in the hippocampus.

Harris EW *et al* (1986) Brain Res 382(1)
PubMedID 2876750

CPP, a selective N-methyl-D-aspartate (NMDA)-type receptor antagonist: characterization in vitro and in vivo.

Lehmann J *et al* (1987) J Pharmacol Exp Ther 240(3)
PubMedID 2882014

Measurement of NMDA Receptor Antagonist, CPP, in Mouse Plasma and Brain Tissue Following Systematic Administration Using Ion-Pair LCMS/MS.

Gemperline E et al (2014) Analytical methods : advancing methods and applications 6
PubMedID 25663848