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DATASHEET

(*R*)-CPPene (SDZ EAA 494)

Product overview

Name	(<i>R</i>)-CPPene (SDZ EAA 494)
Cat No	HB0023
Alternative names	Midafotel, D-CPP-ene
Biological action	Antagonist
Description	Potent competitive NMDA antagonist

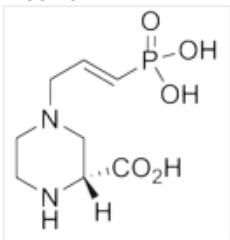
Biological Data

Biological description	Potent competitive NMDA antagonist ($K_i = 40$ nM). Centrally active following systemic administration.
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Solubility & Handling

Storage instructions	Room temperature
Solubility overview	Soluble in water (100 mM)
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	D-4-[(2 <i>E</i>)-3-Phosphono-2-propenyl]-2-piperazinecarboxylic acid
Molecular Weight	250.19
Chemical structure	
Molecular Formula	C ₈ H ₁₅ N ₂ O ₅ P
CAS Number	117414-74-1
PubChem identifier	6435801
SMILES	C1CN(C[C@@H](N1)C(=O)O)C/C=C/P(=O)(O)O
Source	Synthetic
InChi	InChI=1S/C8H15N2O5P/c11-8(12)7-6-10(4-2-9-7)3-1-5-16(13,14)15/h1,5,7,9H,2-4,6H2,(H,11,12)(H,2,13,14,15)/b5-1+/t7-/m1/s1
InChiKey	VZXMZMJSGLFKQI-ABVWVHJUSA-N
Appearance	White solid

References

D-CPP-ene (SDZ EAA 494), a Potent and Competitive N-methyl-D-aspartate (NMDA) Antagonist: Effect on Spontaneous Activity and NMDA-induced Depolarizations in the Rat Neocortical Slice Preparation, Compared With Other CPP Derivatives and MK-801

Lowe et al (1990) Neurosci Lett. 113(3)

PubMedID [2166255](#)

Evaluation of a Competitive NMDA Antagonist (D-CPPene) in Feline Focal Cerebral Ischemia

Chen et al (1991) Ann Neurol. 30(1)

PubMedID [1834008](#)

The Excitatory Amino Acid Antagonist D-CPP-ene (SDZ EAA-494) in Patients With Epilepsy

Sveinbjornsdottir et al (1993) Epilepsy Res. 16(2)

PubMedID [8269915](#)
