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## DATASHEET

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

### Product overview

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

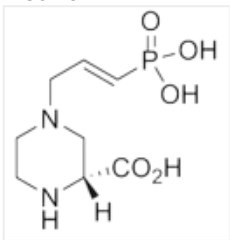
### Biological Data

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

<b>Storage instructions</b>	Room temperature
<b>Solubility overview</b>	Soluble in water (100 mM)
<b>Important</b>	This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not for human or veterinary use

### Chemical Data

<b>Chemical name</b>	D-4-[(2 <i>E</i> )-3-Phosphono-2-propenyl]-2-piperazinecarboxylic acid
<b>Molecular Weight</b>	250.19
<b>Chemical structure</b>	

<b>Molecular Formula</b>	$C_8H_{15}N_2O_5P$
<b>CAS Number</b>	117414-74-1
<b>PubChem identifier</b>	6435801
<b>SMILES</b>	<chem>C1CN(C[C@@H](N1)C(=O)O)C=C/P(=O)(O)O</chem>
<b>Source</b>	Synthetic
<b>InChi</b>	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
<b>InChiKey</b>	VZXMZMJSGLFKQI-ABVWVHJUSA-N
<b>Appearance</b>	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](#)

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