Certificate of Analysis

Product Name: **(*RS*)-CPP** **Catalog No.: 0173** **Batch No.: 37**

CAS Number: 100828-16-8

IUPAC Name: (*RS*)-3-(2-Carboxypiperazin-4-yl)-propyl-1-phosphonic acid

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: $C_8H_{17}N_2O_5P.2H_2O$

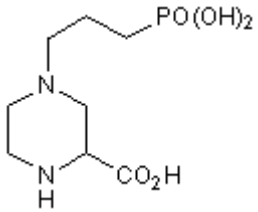
Batch Molecular Weight: 288.24

Physical Appearance: White solid

Solubility: water to 100 mM

Storage: Desiccate at RT

Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.18 (Pyridine:Acetic acid:Water:Butanol [3:8:11:22])

^{1}H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	33.34	7.34	9.72
Found	33.06	6.95	9.55

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Product Information

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CAS Number: 100828-16-8

IUPAC Name: (*RS*)-3-(2-Carboxypiperazin-4-yl)-propyl-1-phosphonic acid

Description:

Potent NMDA antagonist. Separate isomer (R)-CPP also available (Cat. No. 0247).

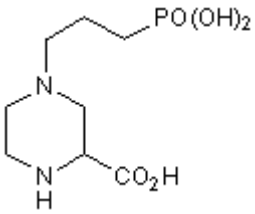
Physical and Chemical Properties:

Batch Molecular Formula: $C_8H_{17}N_2O_5P.2H_2O$

Batch Molecular Weight: 288.24

Physical Appearance: White solid

Batch Molecular Structure:



Storage: Desiccate at RT

Solubility & Usage Info:

water to 100 mM

Stability and Solubility Advice:

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

References:

Davies *et al* (1986) CPP, a new potent and selective NMDA antagonist. Depression of central neuron responses, affinity for [^{3}H]-D-AP5 binding sites on brain membranes and anti-convulsant activity. Brain Res. ***382*** 169. PMID: 2876749.

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