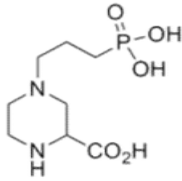


Certificate of Analysis



Product Identification		Chemical Structure
Catalog number	HB0036	
Compound name	RS-CPP	
Chemical name	3-(2-Carboxypiperazin-4-yl)propyl-1-phosphonic acid	
Batch number	E1835-5-9	
Batch molecular formula	C ₈ H ₁₇ N ₂ O ₅ P·H ₂ O	
Batch molecular weight	270.22	
Method	QC requirement	QC Result
NMR	¹ H NMR in D ₂ O at 400 MHz consistent with structure	Meets specification
Mass spectrum	Electrospray negative analysis consistent with structure	Meets specification
Microanalysis	Elemental analysis is within 0.4% for the batch molecular formula	Meets specification
TLC	TLC analysis in 50% PAW:BuOH shows one spot under ninhydrin	Meets specification: R _f =0.1
Physical appearance	White to off-white solid	Meets specification: White solid
Solubility	Soluble in water (100 mM)	Meets specification

Produced by

Signature

Passed by

Signature

Date

12/07/2022

This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not for human or veterinary use.