

Certificate of Analysis



Product Identification		Chemical Structure
Catalog number	HB0423	
Compound name	MNI-caged-L-Glutamate	
Chemical name	(S)-alpha-Amino-2,3-dihydro-4-methoxy-7-nitro-5-oxo-1H-indole-1-pentanoic acid	
Batch number	E1193-10-1	
Batch molecular formula	C ₁₄ H ₁₇ N ₃ O ₆ ·0.7H ₂ O	
Batch molecular weight	335.92	
Method	QC requirement	QC Result
HPLC	Reverse Phase HPLC shows >98% purity	Meets specification: 99.5%
NMR	¹ H NMR in D ₂ O at 400 MHz consistent with structure and shows no detectable glutamate	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 =0.45
Physical appearance	Yellow to pale yellow solid	Meets specification: Pale yellow solid
Solubility	Soluble in water (50 mM)	Meets specification

Produced by

Signature

Passed by

Signature

Date

02-04-20

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