

Certificate of Analysis

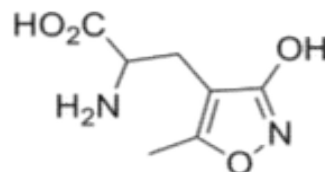


Product Identification

Catalog number HB0030
Compound name RS-AMPA
Chemical name (RS)- α -Amino-3-hydroxy-5-methyl-4-isoxazolepropionic acid

Batch number E0577-3-1
Batch molecular formula $C_7H_{10}N_2O_4 \cdot 1.75H_2O$
Batch molecular weight 217.70

Chemical Structure



Method

QC requirement

QC Result

HPLC	Chiral HPLC shows >98% as two isomers	Meets specification: 100%
NMR	1H NMR in D_2O at 400 MHz consistent with structure and shows <1% of any impurity	Meets specification
Mass spectrum	Electrospray positive analysis consistent with structure	Meets specification
Microanalysis	Elemental analysis is within 0.4% for the batch molecular formula	Meets specification
TLC	TLC analysis in 1:1 PAW:BuOH shows one spot under ninhydrin	Meets specification: $R_f=0.5$
Physical appearance	White to off-white solid	Meets specification: White solid
Solubility	Soluble in water (10 mM)	Meets specification

Biological validation

Produced by Richard Patterson

Signature

Passed by Huw Davies

Signature

Date

24-05-17

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