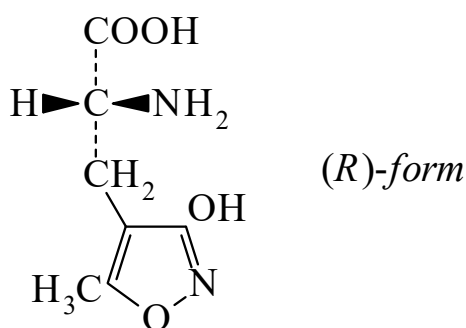




>>Entry Name: 2-Amino-3-(3-hydroxy-5-methyl-4-isoxazolyl)propanoic acid

Synonym(s):  $\alpha$ -Amino-3-hydroxy-5-methyl-4-isoxazolepropionic acid.  $\alpha$ -Amino-2,3-dihydro-5-methyl-3-oxo-4-isoxazolepropanoic acid, 9Cl. AMPA



CAS Registry Number: 77521-29-0

Related CAS Registry Numbers(s): 76463-67-7

Molecular Formula:  $C_7H_{10}N_2O_4$

Molecular Weight: 186.167

Accurate Mass: 186.064058

Percentage Composition: C 45.16%; H 5.41%; N 15.05%; O 34.38%

General Statement: Potentially tautomeric with *oxo*-form

Use/Importance: Neurotransmitter which is bioisostere of glutamic acid; used to characterise neuroreceptors

Other Data: Analogue of Ibotenic acid [BCQ91-A](#)

>>Variant: (*R*)-form

Synonym(s): D-form

CAS Registry Number: 83654-13-1

Molecular Formula:  $C_7H_{10}N_2O_4$

Molecular Weight: 186.167

Accurate Mass: 186.064058

Percentage Composition: C 45.16%; H 5.41%; N 15.05%; O 34.38%

Physical Description: Cryst. (EtOH aq.)

Melting Point: Mp 200 dec.°

Optical Rotation:  $[\alpha]_D^{27} + 19$  (c, 0.18 in  $H_2O$ )

Sigma: A0201

>>Derivative: Hydrobromide

CAS Registry Number: 84799-50-8

Physical Description: Cryst. (EtOH/petrol)

Optical Rotation:  $[\alpha]_D^{25} - 14.2$  (c, 0.71 in EtOH)

>>Variant: (*S*)-form

Synonym(s): L-form

CAS Registry Number: 83643-88-3

Molecular Formula:  $C_7H_{10}N_2O_4$

Molecular Weight: 186.167

Accurate Mass: 186.064058

Percentage Composition: C 45.16%; H 5.41%; N 15.05%; O 34.38%

Physical Description: Cryst. (EtOH aq.)

Optical Rotation:  $[\alpha]_D^{28} - 21$  (c, 0.19 in  $H_2O$ )

Other Data: Pharmacol. active isomer

Sigma: A0326

>>Derivative: Hydrobromide

CAS Registry Number: 84799-52-0

Physical Description: Cryst. (EtOH/petrol)

Melting Point: Mp 192-195° (dec.)

Optical Rotation:  $[\alpha]_D + 15.4$  (c, 0.5 in EtOH)