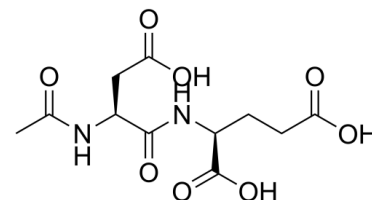


Data Sheet

Product Name:	Spaglumeric Acid
Cat. No.:	CS-0020591
CAS No.:	3106-85-2
Molecular Formula:	C ₁₁ H ₁₆ N ₂ O ₈
Molecular Weight:	304.25
Target:	Endogenous Metabolite
Pathway:	Metabolic Enzyme/Protease
Solubility:	H ₂ O : 250 mg/mL (ultrasonic)



BIOLOGICAL ACTIVITY:

Spaglumeric Acid (N-Acetylaspartylglutamic acid) is a neuropeptide found in millimolar concentrations in brain. *In Vitro*: Spaglumeric Acid (N-Acetylaspartylglutamate; NAAG) is released upon depolarization by a Ca²⁺-dependent process and is an agonist at mGluR3 receptors and an antagonist at NMDA receptors. Spaglumeric Acid is catabolized to N-acetylaspartate and glutamate primarily by glutamate carboxypeptidase II, which is expressed on the extracellular surface of astrocytes. The levels of Spaglumeric Acid and the activity of carboxypeptidase II are altered in a regionally specific fashion in several neuropsychiatric disorders^[1].

References:

[1]. Coyle JT. The nagging question of the function of N-acetylaspartylglutamate. Neurobiol Dis. 1997;4(3-4):231-8.

CAIndexNames:

L-Glutamic acid, N-acetyl-L-α-aspartyl-

SMILES:

CC(=O)NCC(=O)NCC(=O)O

Caution: Product has not been fully validated for medical applications. For research use only.

Tel: 610-426-3128

Fax: 888-484-5008

E-mail: sales@ChemScene.com

Address: 1 Deer Park Dr, Suite F, Monmouth Junction, NJ 08852, USA