

Spaglumic acid

Chemical Properties

CAS No. : 3106-85-2

Formula: C₁₁H₁₆N₂O₈

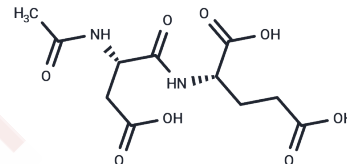
Molecular Weight: 304.25

Storage:

Store at low temperature, Keep away from direct sunlight, Keep away from moisture

Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



Biological Description

Description	Spaglumic acid (N-Acetylaspartylglutamic acid) is a neuropeptide found in millimolar concentrations in the brain.
Targets(IC50)	Endogenous Metabolite
In vitro	Spaglumic Acid is released upon depolarization by a Ca ²⁺ -dependent process and is an agonist at mGluR3 receptors and an antagonist at NMDA receptors. Spaglumic Acid is catabolized to N-acetylaspartate and glutamate primarily by glutamate carboxypeptidase II, which is expressed on the extracellular surface of astrocytes [1].

Solubility Information

Solubility	H ₂ O: 260 mg/mL (854.56 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.2868 mL	16.4339 mL	32.8677 mL
5 mM	0.6574 mL	3.2868 mL	6.5735 mL
10 mM	0.3287 mL	1.6434 mL	3.2868 mL
50 mM	0.0657 mL	0.3287 mL	0.6574 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

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

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