

Spaglumic acid acetate

Chemical Properties

CAS No. :

Formula: C₁₃H₂₀N₂O₁₀

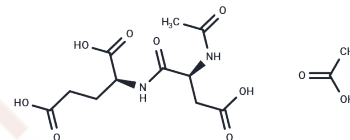
Molecular Weight: 364.31

Storage:

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

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 acetate (Isospaglumic acid acetate) is a neuropeptide found in millimolar concentrations in brain.
Targets(IC50)	Endogenous Metabolite
In vitro	Spaglumic acid acetate 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 acetate is catabolized to N-acetylaspartate and glutamate primarily by glutamate carboxypeptidase II, which is expressed on the extracellular surface of astrocytes. The levels of Spaglumic acid acetate and the activity of carboxypeptidase II are altered in a regionally specific fashion in several neuropsychiatric disorders[1].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.7449 mL	13.7246 mL	27.4492 mL
5 mM	0.549 mL	2.7449 mL	5.4898 mL
10 mM	0.2745 mL	1.3725 mL	2.7449 mL
50 mM	0.0549 mL	0.2745 mL	0.549 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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