

O-Acetylserine

Chemical Properties

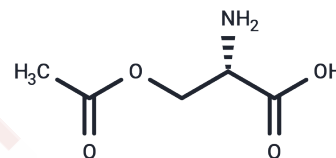
CAS No. : 5147-00-2

Formula: C₅H₉NO₄

Molecular Weight: 147.13

Storage: Keep away from moisture, Store under nitrogen
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	O-Acetylserine (O-Acetyl-L-serine) is an intermediate in the biosynthesis of cysteine in bacteria and plants.
Targets(IC50)	Endogenous Metabolite

Solubility Information

Solubility	H ₂ O: 32 mg/mL (217.49 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	6.7967 mL	33.9836 mL	67.9671 mL
5 mM	1.3593 mL	6.7967 mL	13.5934 mL
10 mM	0.6797 mL	3.3984 mL	6.7967 mL
50 mM	0.1359 mL	0.6797 mL	1.3593 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

Hubberten HM, et al. Additional role of O-acetylserine as a sulfur status-independent regulator during plant growth. Plant J. 2012 May;70(4):666-77.

Hopkins L, et al. O-acetylserine and the regulation of expression of genes encoding components for sulfate uptake and assimilation in potato. Plant Physiol. 2005 May;138(1):433-40.

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