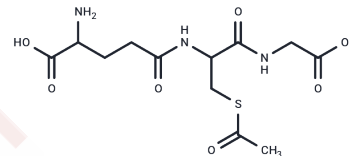


S-Acetyl-L-glutathione

Chemical Properties

CAS No. :	3054-47-5
Formula:	C ₁₂ H ₁₉ N ₃ O ₇ S
Molecular Weight:	349.36
Storage:	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	S-Acetyl-L-glutathione is a derivative of glutathione .1 It increases intracellular GSH levels in primary fibroblasts derived from patients with glutathione synthetase deficiency when used at a concentration of 50 μM. S-Acetyl-L-glutathione (5 mM) induces apoptosis in Daudi, Raji, and Jurkat lymphoma cells.2 It inhibits the replication of herpes simplex virus 1 (HSV-1) in human foreskin fibroblasts when used at concentrations of 5 and 10 mM.3 S-Acetyl-L-glutathione (6.25 μg/g per day) increases survival in a mouse model of HSV-1 infection.
Targets(IC50)	Apoptosis,Others,HSV

Solubility Information

Solubility	PBS (pH 7.2): 1 mg/mL (2.86 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	2.8624 mL	14.3119 mL	28.6238 mL
5 mM	0.5725 mL	2.8624 mL	5.7248 mL
10 mM	0.2862 mL	1.4312 mL	2.8624 mL
50 mM	0.0572 mL	0.2862 mL	0.5725 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

- Okun, J.G., Sauer, S., B?hr, S., et al. S-Acetylglutathione normalizes intracellular glutathione content in cultured fibroblasts from patients with glutathione synthetase deficiency. *J. Inherit. Metab. Dis.* 27(6), 783-786 (2004).
- Locigno, R., Pincemail, J., Henno, A., et al. S-acetyl-glutathione selectively induces apoptosis in human lymphoma cells through a GSH-independent mechanism. *Int. J. Oncol.* 20(1), 69-75 (2002).
- Vogel, J.-U., Cinatl, J., Dauletbaev, N., et al. Effects of S-acetylglutathione in cell and animal model of herpes simplex virus type 1 infection. *Med. Microbiol. Immunol.* 194(1-2), 55-59 (2005).

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