



LKT Laboratories, Inc.

S-Acetyl-L-glutathione

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Product Information

Product ID A1016

CAS No. 3054-47-5

Chemical Name 5-[[[3-acetylsulfanyl-1-(carboxymethylamino)-1-oxopropan-2-yl]amino]-2-amino-5-oxopentanoic acid

Synonym L-glutathione, S-acetyl

Formula C₁₂H₁₉N₃O₇S

Formula Wt. 349.36

Melting Point 199-204°C (dec.)

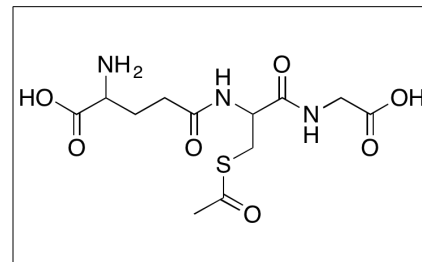
Purity ≥98%

Solubility Soluble in hot water. Practically insoluble in cold water.

Store Temp 4°C

Ship Temp Ambient

Description S-acetyl-L-glutathione is a glutathione derivative that can increase intracellular glutathione similar to a prodrug. It can be used to replenish the depletion of reduced glutathione occurring during HIV infection and to inhibit HIV replication. However, it was found to selectively induce apoptosis in human lymphoma cells, Daudi, Raji and Jurkat cells, by depleting the intracellular glutathione level rather than increase it.



Pricing and Availability

Bulk quantities available upon request

Product ID	Size	List Price
A1016	1 g	\$65.00
A1016	5 g	\$135.00
A1016	25 g	\$250.00

References Fraternali A1, Paoletti MF, Casabianca A, et.al. Inhibition of murine AIDS by pro-glutathione (GSH) molecules. Antiviral Res. 2008 Feb;77(2):120-7. PMID: 18164447

Locigno R1, Pincemail J, Henno A, et.al. S-acetyl-glutathione selectively induces apoptosis in human lymphoma cells through a GSH-independent mechanism. Int J Oncol. 2002 Jan;20(1):69-75. PMID: 11743644

Galzigna L1, Rizzoli V, Schiappelli P et.al. S-acetyl- and S-phenylacetyl-glutathione as glutathione precursors in rat plasma and tissue preparations. Enzyme Protein. 1994-1995;48(2):98-104. PMID: 7581748

Caution: This product is intended for laboratory and research use only. It is not for human or drug use.