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Product Information



N-Acetyl-S-allyl-L-cysteine

Item No. 17592

CAS Registry No.: 23127-41-5

Formal Name: N-acetyl-S-2-propen-1-yl-L-cysteine

MF: C₈H₁₃NO₃S FW: 203.3 **Purity:** ≥98%

≥2 years at -20°C Stability: Supplied as: A crystalline solid

Laboratory Procedures

For long term storage, we suggest that N-acetyl-S-allyl-L-cysteine be stored as supplied at -20°C. It should be stable for at least two years.

N-Acetyl-S-allyl-L-cysteine is supplied as a crystalline solid. A stock solution may be made by dissolving the N-acetyl-Sallyl-L-cysteine in the solvent of choice. N-Acetyl-S-allyl-L-cysteine is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide, which should be purged with an inert gas. The solubility of N-acetyl-S-allyl-L-cysteine in these solvents is approximately 50 mg/ml.

Further dilutions of the stock solution into aqueous buffers or isotonic saline should be made prior to performing biological experiments. Ensure that the residual amount of organic solvent is insignificant, since organic solvents may have physiological effects at low concentrations. Organic solvent-free aqueous solutions of N-acetyl-S-allyl-L-cysteine can be prepared by directly dissolving the crystalline solid in aqueous buffers. The solubility of N-acetyl-S-allyl-L-cysteine in PBS, pH 7.2, is approximately 30 mg/ml. We do not recommend storing the aqueous solution for more than one day.

L-Deoxyalliin (Item No. 14014), also known as S-allyl-L-cysteine, is a water soluble organosulfur compound derived from garlic that has neuroprotective and antioxidative activities. 1,2 N-Acetyl-S-allyl-L-cysteine is a principal metabolite of L-deoxyalliin in humans, mice, rats, and dogs.³⁻⁵ It is readily detected in plasma and urine. The conversion of L-deoxyalliin to N-acetyl-S-allyl-L-cysteine appears to be mediated by a family of flavin-containing monooxygenases.^{4,6}

References

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Related Products

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WARNING: This product is for laboratory research only: not for administration to humans. Not for human or veterinary DIAGNOSTIC OR THERAPEUTIC USE.

This material should be considered hazardous until information to the contrary becomes available. Do not ingest, swallow, or inhale. Do not get in eyes, on skin, or on clothing. Wash thoroughly after handling. This information contains some, but not all, of the information required for the safe and proper use of this material. Before use, the user must review the complete Safety Data Sheet, which has been sent via email to your institution.

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