
Product Data Sheet

Product Name: N-Acetyl-D-cysteine

Cat. No.: GC39756

Chemical Properties

Cas. No. 26117-28-2

SMILES SC[C@H](C(O)=O)NC(C)=OFormula C₅H₉NO₃S

M.Wt 163.19

Solubility Water: 250 mg/mL (1531.96 mM)

Storage Store at -20°C

General tips For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

Structure **Background**

N-Acetyl-D-cysteine has antioxidant activities and scavenges ROS through the reaction with its thiol group, but cannot enter the glutathione metabolic pathway[1].

[1]. Maika Deffieu, et al. Glutathione Participates in the Regulation of Mitophagy in Yeast. *J Biol Chem*. 2009 May 29;284(22):14828-37. [2]. B K Wong, et al. Selective Effects of N-acetylcysteine Stereoisomers on Hepatic Glutathione and Plasma Sulfate in Mice. *Toxicol Appl Pharmacol* [3]. Suparna Qanungo, et al. N-Acetyl-L-cysteine Enhances Apoptosis Through Inhibition of Nuclear factor-kappaB in Hypoxic Murine Embryonic Fibroblasts. *J Biol Chem*

Caution: Product has not been fully validated for medical applications. For research use only.

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