

N-Acetyl-L-cysteine, Antioxidant

Catalog	Unit
TBI2321-5G	5 g
TBI2321-25G	25 g

Product Details

Formal Name: (R)-2-Acetamido-3-mercaptopropanoic acid

Alternate Names: N-Acetylcysteine; NAC; NSC-111180

Molecular Formula: C₅H₉NO₃S

Formula Weight: 163.20

CAS Number: 616-91-1

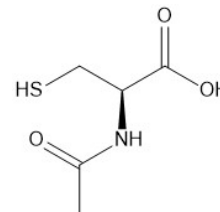
Purity: >98%

Formulation: powder

Solubility: Soluble in DMSO (up to 50 mg/ml with warming), or in Water (up to 30 mg/ml).

Storage: -20°C

Stability: ≥ 2 years.



Applications

Antioxidant

Functions

A thiol-containing antioxidant. N-Acetyl-L-cysteine acts as a scavenger of reactive oxygen species (ROS) and is commonly used to decrease oxidative stress in various models. Inhibits ROS-dependent apoptosis. Displays protective effects in various disease models including renal ischemia/reperfusion injury, hepatic failure and others. Has been shown to interfere with and antagonize the activity of proteasome inhibitors.

Application Procedures

First dissolved in DMSO (up to 50 mg/ml with warming), or in Water (up to 30 mg/ml), then diluted to aqueous buffer.

For research use only.