Product Name: N-Acetylcysteine amide
Catalog No.: 5619
Batch No.: 2
CAS Number: 38520-57-9
IUPAC Name: \((2R)-2-(Acetylamino)-3-mercaptopropanamide\)

1. PHYSICAL AND CHEMICAL PROPERTIES

   - Batch Molecular Formula: \(C_5H_{10}N_2O_2S\)
   - Batch Molecular Weight: 162.21
   - Physical Appearance: White solid
   - Solubility: water to 100 mM, DMSO to 100 mM
   - Storage: Store at -20°C
   - Batch Molecular Structure:

2. ANALYTICAL DATA

   - TLC: \(R_f = 0.13\) (Chloroform:Methanol [9:1])
   - Melting Point: Between 146 - 148°C
   - \(^1\)H NMR: Consistent with structure
   - Mass Spectrum: Consistent with structure
   - Microanalysis:
     
     |                | Theoretical | Found  |
     |----------------|-------------|--------|
     | Carbon         | 37.02       | 37.04  |
     | Hydrogen       | 6.21        | 6.2    |
     | Nitrogen       | 17.26       | 17.06  |

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

bio-techne.com
info@bio-techne.com
technsupport@bio-techne.com

North America
Tel: (800) 343 7475

China
info.cn@bio-techne.com
Tel: +86 (21) 52380373

Europe Middle East Africa
Tel: +44 (0)1235 529449

Rest of World
www.tocris.com/distributors
Tel:+1 612 379 2956
Product Name: N-Acetylcysteine amide  
Catalog No.: 5619  
Batch No.: 2  

CAS Number: 38520-57-9  
IUPAC Name: (2R)-2-(Acetylamino)-3-mercaptopropanamide

Description:  
Glutathione (GSH) precursor and cell permeable antioxidant. Improves neuronal mitochondrial bioenergetics, reduces tissue damage and enhances functional recovery following spinal cord injury in rats. Also enhances behavioral recovery in rats following traumatic brain injury. Neuroprotective.

Physical and Chemical Properties:  
Batch Molecular Formula: C_{10}H_{19}N_{3}O_{2}S  
Batch Molecular Weight: 162.21  
Physical Appearance: White solid

Batch Molecular Structure:

Storage: Store at -20°C. This product is packaged under an inert atmosphere.

Solubility & Usage Info:  
- Water to 100 mM  
- DMSO to 100 mM

Stability and Solubility Advice:  
Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).  
Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:  
SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.  
SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

References:  