# Data Sheet (Cat.No.T36614)

TargetMol
YOUR TARGET MOLECULES

## DL-Sulforaphane N-acetyl-L-cysteine

### Chemical Properties

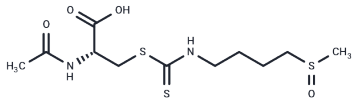
CAS No. : 334829-66-2

Formula: C11H20N2O4S3

Molecular Weight: 340.47

Appearance: no data available

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year



### Biological Description

| | |
|---|---|
| Description | Nrf2 activation of the antioxidant response element (ARE) is central to cytoprotective gene expression against oxidative and/or electrophilic stress. Unless activated by inflammatory, environmental, or oxidative stressors, Nrf2 is sequestered in the cytoplasm by its repressor, Keap1. Because of its protective capabilities, small molecules that activate Nrf2 signaling are being examined as potential anti-cancer or anti-inflammatory agents. DL-Sulforaphane N-acetyl-L-cysteine (SFN-NAC) is a major metabolite of SFN , a powerful inducer of chemopreventative enzymes via Keap1-Nrf2 signaling and ARE-driven gene expression. At 75 μM, SFN-NAC has been shown to increase ARE expression in HepG2-C8 cells. Its reported potency on ARE-related gene expression is roughly 8-fold less than SFN. |

### Solubility Information

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|---|---|
| Solubility | DMSO: 10 mg/mL<br>PBS (pH 7.2): 10 mg/mL<br>Ethanol: 5 mg/mL<br>DMF: 10 mg/mL<br>(< 1 mg/ml refers to the product slightly soluble or insoluble) |

Preparing Stock Solutions

| | 1mg | 5mg | 10mg |
|---|---|---|---|
| 1 mM | 2.9371 mL | 14.6856 mL | 29.3712 mL |
| 5 mM | 0.5874 mL | 2.9371 mL | 5.8742 mL |
| 10 mM | 0.2937 mL | 1.4686 mL | 2.9371 mL |
| 50 mM | 0.0587 mL | 0.2937 mL | 0.5874 mL |

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

This product is for Research Use Only· Not for Human or Veterinary or Therapeutic Use

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