

## S-Nitroso-N-acetylcysteine

## Chemical Properties

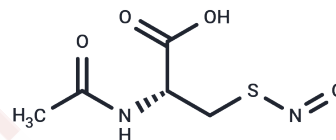
CAS No. : 56577-02-7

Formula: C<sub>5</sub>H<sub>8</sub>N<sub>2</sub>O<sub>4</sub>S

Molecular Weight: 192.19

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

Actual storage temperature shall be subject to the COA.



## Biological Description

Description	S-Nitroso-N-acetylcysteine inhibits proliferation and survival of multiple MM cells. It acts by the S-nitrosylation-dependent inhibition of STAT3 and NF-κB.
Targets(IC50)	Others, Reactive Oxygen Species, Adrenergic Receptor

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	5.2032 mL	26.0159 mL	52.0318 mL
5 mM	1.0406 mL	5.2032 mL	10.4064 mL
10 mM	0.5203 mL	2.6016 mL	5.2032 mL
50 mM	0.1041 mL	0.5203 mL	1.0406 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.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

### Reference

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Kim J, Choi S, Saxena N, Singh AK, Singh I, Won JS. Regulation of STAT3 and NF- $\kappa$ B activations by S-nitrosylation in multiple myeloma. *Free Radic Biol Med*. 2017 May;106:245-253. doi: 10.1016/j.freeradbiomed.2017.02.039. Epub 2017 Feb 21. PubMed PMID: 28232202; PubMed Central PMCID: PMC5826580.

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de Souza GF, de Oliveira MG. Intratableted S-nitrosation: A New Approach for the Oral Administration of S-nitrosothiols as Nitric Oxide Donors. *J Pharm Sci*. 2016 Jan;105(1):359-61. doi: 10.1016/j.xphs.2015.10.011. Epub 2015 Dec 18. PubMed PMID: 26852866.

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