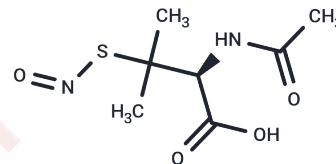


## SNAP

## Chemical Properties

CAS No. :	79032-48-7
Formula:	C <sub>7</sub> H <sub>12</sub> N <sub>2</sub> O <sub>4</sub> S
Molecular Weight:	220.25
Storage:	Store at low temperature Powder: -20°C for 3 years   In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>



## Biological Description

Description	SNAP is a nitric oxide donor that acts as a stable inhibitor of platelet aggregation. SNAP has played a pivotal role in elucidating nitric oxide-mediated mechanisms in liver fibrosis, hepatic stellate cell phenotype maintenance, and S-nitrosylation pathways in breast cancer models to counteract radiation-induced oxidative stress. SNAP additionally functions as a P-glycoprotein/BCRP inhibitor to enhance radiotracer quantification in rats, while its application as a protease inhibitor in cardiac tissue homogenization has advanced the study of cardiac fibrosis progression and associated biochemical processes.
Targets(IC50)	Others, Protease, P-gp

## Solubility Information

Solubility	DMSO: ≥ 80 mg/mL, Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	4.5403 mL	22.7015 mL	45.403 mL
5 mM	0.9081 mL	4.5403 mL	9.0806 mL
10 mM	0.454 mL	2.2701 mL	4.5403 mL
50 mM	0.0908 mL	0.454 mL	0.9081 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

Wu X, et al. Synthesis and cytotoxicities of mannose conjugated S-nitroso-N-acetylpenicillamine (SNAP). Bioorg Med Chem. 2002 Jul;10(7):2303-7.

Aguiar AS Jr, et al. Moderate-Intensity Physical Exercise Protects Against Experimental 6-Hydroxydopamine-Induced Hemiparkinsonism Through Nrf2-Antioxidant Response Element Pathway. Neurochem Res. 2016 Feb;41(1-2):64-72.

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