

## 3-Nitropropanoic acid

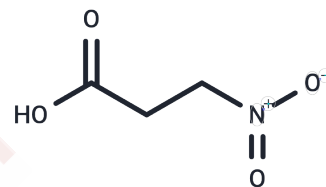
## Chemical Properties

CAS No. : 504-88-1

Formula: C<sub>3</sub>H<sub>5</sub>NO<sub>4</sub>

Molecular Weight: 119.08

Storage: Keep away from moisture, Keep away from direct sunlight  
 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	3-Nitropropanoic acid (Bovinoicidin) is an irreversible inhibitor of succinate dehydrogenase.
Targets(IC50)	Apoptosis, Antibacterial, Autophagy, Dehydrogenase

## Solubility Information

Solubility	DMSO: 247.5 mg/mL (2078.43 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 4 mg/mL (33.59 mM), Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	8.3977 mL	41.9886 mL	83.9772 mL
5 mM	1.6795 mL	8.3977 mL	16.7954 mL
10 mM	0.8398 mL	4.1989 mL	8.3977 mL
50 mM	0.168 mL	0.8398 mL	1.6795 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

Gupta S, Sharma B. Eur J Pharmacol. 2014 Jun 5;732:111-22.

Xiong J, Wang L, Feng Y, et al. Geldanamycin confers fungicidal properties to azole by triggering the activation of succinate dehydrogenase. Life Sciences. 2024: 122699.

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