

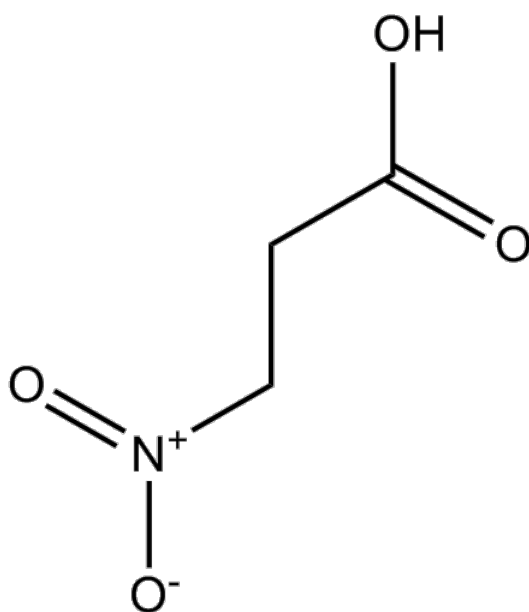
## Product Data Sheet

Product Name: 3-Nitropropionic acid  
Cat. No.: GC17394

### Chemical Properties

Cas No.	504-88-1		
化学名	3-nitropropanoic acid		
Canonical SMILES	<chem>OC(CC[N+](=O)[O-])=O</chem>		
分子式	$C_3H_5NO_4$	分子量	119.08
溶解度	$\geq 6\text{mg/mL}$ in DMSO	储存条件	4°C, away from moisture and light
General tips	For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.		
Shipping Condition	Evaluation sample solution : ship with blue ice All other available size: ship with RT, or blue ice upon request.		

Structure



### Background

3-Nitropropionic acid is an irreversible inhibitor of succinate dehydrogenase.

#### References:

[1]. Huang LS, et al. 3-nitropropionic acid is a suicide inhibitor of mitochondrial respiration that, upon oxidation by complex II, forms a covalent adduct with a catalytic base arginine in the active site of the enzyme. J Biol Chem. 2006 Mar 3;281(9):5965-72.

**Caution: Product has not been fully validated for medical applications. For research use only.**

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