

## 3-Butynoic acid

## Chemical Properties

CAS No. : 2345-51-9

Formula: C<sub>4</sub>H<sub>4</sub>O<sub>2</sub>

Molecular Weight: 84.07

Storage: Store at low temperature  
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-Butynoic acid is a potent inhibitor of acyl CoA dehydrogenase, a substrate for the Zn-dependent flavoproteinase D-lactate dehydrogenase, and can be used to study lactic acid metabolism.
Targets(IC50)	Endogenous Metabolite

## Solubility Information

Solubility	H <sub>2</sub> O: 20 mg/mL (237.9 mM),Sonication is recommended. DMSO: 20 mg/mL (237.9 mM),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	11.8948 mL	59.4742 mL	118.9485 mL
5 mM	2.379 mL	11.8948 mL	23.7897 mL
10 mM	1.1895 mL	5.9474 mL	11.8948 mL
50 mM	0.2379 mL	1.1895 mL	2.379 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

Akedo, M., et al. Direct Demonstration of Lactate-Acrylate Interconversion in Clostridium Propionicum. Nat Biotechnol 1, 791-794 (1983).

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