

## 3-(Methylthio)propionic acid

## Chemical Properties

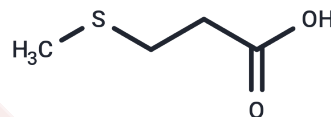
CAS No. : 646-01-5

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

Molecular Weight: 120.17

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	3-(Methylthio)propionic acid (4-Thiapentanoic acid) is one of the metabolites of methionine (especially of D-methionine). Cultures of <i>Streptomyces lincolnensis</i> accumulated 3-methylthioacrylic acid in amounts directly related to the concentration of methionine in the medium. The first intermediate in the pathway may be the keto acid, which is then oxidatively decarboxylated to 3-methylthiopropionic acid.
Targets(IC50)	Endogenous Metabolite,Antifungal

## Solubility Information

Solubility	H <sub>2</sub> O: 25 mg/mL (208.04 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	8.3215 mL	41.6077 mL	83.2154 mL
5 mM	1.6643 mL	8.3215 mL	16.6431 mL
10 mM	0.8322 mL	4.1608 mL	8.3215 mL
50 mM	0.1664 mL	0.8322 mL	1.6643 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

Surette R, et al. Formation of 3-methylthioacrylic acid from methionine by *Streptomyces lincolnensis*. Isolation of a peroxidase. *J Antibiot (Tokyo)*. 1976 Jun;29(6):646-52.

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