

## DL-Methionine

## Chemical Properties

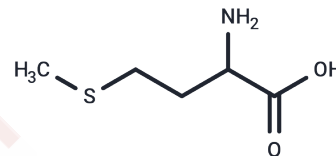
CAS No. : 59-51-8

Formula: C<sub>5</sub>H<sub>11</sub>NO<sub>2</sub>S

Molecular Weight: 149.21

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	DL-Methionine (Acimetion) is an amino acid. Amino acids are the building blocks that our bodies use to make proteins. DL-Methionine is found in meat, fish, and dairy products. It plays an important role in the many functions within the body.
Targets(IC50)	Parasite

## Solubility Information

Solubility	DMSO: Insoluble, H <sub>2</sub> O: 10 mM, Sonication is recommended. ( $< 1$ mg/ml refers to the product slightly soluble or insoluble)
------------	---

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	6.702 mL	33.5098 mL	67.0196 mL
5 mM	1.3404 mL	6.702 mL	13.4039 mL
10 mM	0.6702 mL	3.351 mL	6.702 mL
50 mM	0.134 mL	0.6702 mL	1.3404 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

- Martín-Venegas, R., Brufau, M., Guerrero-Zamora, A., Mercier, Y., Geraert, P., & Ferrer, R. (2013). The methionine precursor dl-2-hydroxy-(4-methylthio)butanoic acid protects intestinal epithelial barrier function. *Food Chemistry*, 141(3), 1702-1709. doi: 10.1016/j.foodchem.2013.04.081
- Wang S, Lin Y, Gao L, et al. PPAR- $\gamma$  integrates obesity and adipocyte clock through epigenetic regulation of Bmal1. *Theranostics*. 2022, 12(4): 1589.
- Li L, Gu X, Wang J, et al. Amino Acid Detection with Bare Eyes Based on Two Different Concentrations of Iodides as Sensor Receptors. *Food Analytical Methods*. 2021: 1-9
- Austic, R. et al.: *J. Agri. Food Chem.*, 61, 7341 (2013)
- Yan, L. et al.: *J. Anim. Phys Anim Nutr.*, 97, 457 (2013)
- Li L, Gu X, Wang J, et al. Amino Acid Detection with Bare Eyes Based on Two Different Concentrations of Iodides as Sensor Receptors[J]. *Food Analytical Methods*. 2021: 1-9

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

Tel:781-999-4286 E\_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481