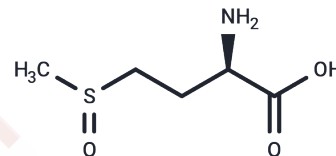


## D-Methionine sulfoxide

## Chemical Properties

CAS No. :	21056-56-4
Formula:	C <sub>5</sub> H <sub>11</sub> NO <sub>3</sub> S
Molecular Weight:	165.21
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	D-Methionine sulfoxide inhibits peptide methionine sulfoxide reductase and can be used to inhibit ochre mites. D-Methionine sulfoxide can be added to chicken feed to promote growth.
Targets(IC50)	Reductase, Endogenous Metabolite
In vitro	Methionine is a limiting amino acid critical for optimal poultry diet formulations.

## Solubility Information

Solubility	DMSO: 50 mg/mL (302.65 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
------------	---

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	6.0529 mL	30.2645 mL	60.529 mL
5 mM	1.2106 mL	6.0529 mL	12.1058 mL
10 mM	0.6053 mL	3.0265 mL	6.0529 mL
50 mM	0.1211 mL	0.6053 mL	1.2106 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

Kuzmicky DD, et al. Availability of oxidized sulfur amino acids for the growing chick. Poultry Sci. 1977;56(5):1560-1565.

Greene RC. Methionine limitation in Escherichia coli K-12 by growth on the sulfoxides of D-methionine. J Bacteriol. 1973;116(1):230-234.

**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