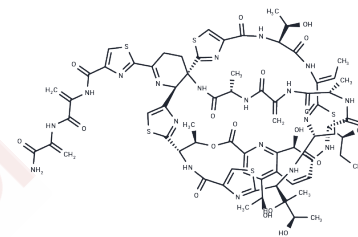


## Thiostrepton

## Chemical Properties

CAS No. :	1393-48-2
Formula:	C72H85N19O18S5
Molecular Weight:	1664.89
Storage:	Keep away from moisture Powder: -20°C for 3 years   In solvent: -80°C for 1 year <i>Actual storage temperature shall be subject to the COA.</i>



## Biological Description

Description	Thiostrepton (Alaninamide) is a one of the CYCLIC PEPTIDES from Streptomyces that is active against gram-positive bacteria. In veterinary medicine, it has been used in mastitis caused by gram-negative organisms and in dermatologic disorders.
Targets(IC50)	Antibacterial, Antibiotic, DNA/RNA Synthesis, YAP

## Solubility Information

Solubility	DMSO: 247.5 mg/mL (148.66 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Corn Oil: 4 mg/mL (2.4 mM), Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.6006 mL	3.0032 mL	6.0064 mL
5 mM	0.1201 mL	0.6006 mL	1.2013 mL
10 mM	0.0601 mL	0.3003 mL	0.6006 mL
50 mM	0.012 mL	0.0601 mL	0.1201 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

Kuiper EG, Conn GL. J Biol Chem. 2014 Sep 19;289(38):26189-200.

Zhou Z, Chen H, Xie R, et al. Epigenetically modulated FOXM 1 suppresses dendritic cell maturation in pancreatic cancer and colon cancer. Molecular Oncology. 2019, 13(4): 873-893

Lai W, Zhu W, Li X, et al. GTSE1 promotes prostate cancer cell proliferation via the SP1/FOXM1 signaling pathway [J]. Laboratory Investigation . 2020: 1-10.

Lai W, Zhu W, Li X, et al. GTSE1 promotes prostate cancer cell proliferation via the SP1/FOXM1 signaling pathway. Laboratory Investigation. 2021 May;101(5):554-563.

Zhou Z, Chen H, Xie R, et al. Epigenetically modulated FOXM 1 suppresses dendritic cell maturation in pancreatic cancer and colon cancer[J]. Molecular oncology. 2019 Apr;13(4):873-893.

**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