

## Propamidine isethionate

## Chemical Properties

CAS No. : 140-63-6

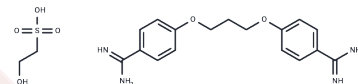
Formula: C<sub>19</sub>H<sub>26</sub>N<sub>4</sub>O<sub>6</sub>S

Molecular Weight: 438.50

Keep away from moisture

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	Propamidine isethionate is an agent in the diamidine class with potent antibacterial and antiprotozoal properties. It is a critical reagent in the research and treatment of Acanthamoeba keratitis. Propamidine exerts its effects by binding to DNA and interfering with nucleic acid synthesis in pathogens.
Targets(IC50)	Antibacterial
In vitro	Propamidine isethionate is effective against Acanthamoeba trophozoites [1][2].

## Solubility Information

Solubility	DMSO: 100 mg/mL (228.05 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
------------	--

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.2805 mL	11.4025 mL	22.805 mL
5 mM	0.4561 mL	2.2805 mL	4.561 mL
10 mM	0.2281 mL	1.1403 mL	2.2805 mL
50 mM	0.0456 mL	0.2281 mL	0.4561 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

Jiang F, et al. Identification and optimization of novel 6-acylamino-2-aminoquinolines as potent Hsp90 C-terminal inhibitors. *Eur J Med Chem.* 2017 Dec 1;141:1-14.

Dos Santos DL, Kwitko S, Marinho DR, de Araújo BS, Locatelli CI, Rott MB. Acanthamoeba keratitis in Porto Alegre (southern Brazil): 28 cases and risk factors. *Parasitol Res.* 2018 Mar;117(3):747-750. doi: 10.1007/s00436-017-5745-y. Epub 2018 Jan 14. PubMed PMID: 29332157.

Fernández-Ferreiro A, Santiago-Varela M, Gil-Martínez M, González-Barcia M, Luaces-Rodríguez A, Díaz-Tome V, Pardo M, Méndez JB, Piñeiro-Ces A, Rodríguez-Ares MT, Lamas MJ, Otero-Espinar FJ. In Vitro Evaluation of the Ophthalmic Toxicity Profile of Chlorhexidine and Propamidine Isethionate Eye Drops. *J Ocul Pharmacol Ther.* 2017 Apr;33(3):202-209. doi: 10.1089/jop.2016.0053. PubMed PMID: 28384032.

Niyati M, Dodangeh S, Lorenzo-Morales J. A Review of the Current Research Trends in the Application of Medicinal Plants as a Source for Novel Therapeutic Agents Against Acanthamoeba Infections. *Iran J Pharm Res.* 2016 Fall;15 (4):893-900. PubMed PMID: 28243287; PubMed Central PMCID: PMC5316269.

**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