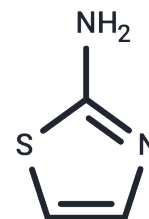


Aminothiazole

Chemical Properties

CAS No. :	96-50-4
Formula:	C3H4N2S
Molecular Weight:	100.14
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>



Biological Description

Description	Aminothiazole (2-Aminothiazole), a thyroid inhibitor, displays antibacterial activity.
Targets(IC50)	Antibacterial,Antibiotic,Antifungal,Virus Protease
In vitro	In mice, Aminothiazole prevents myocardial damage through its antioxidative activity.
In vivo	Aminothiazole demonstrates significant antifungal activity, notably exhibiting a pronounced selectivity towards yeasts. At micromolar concentration levels, it effectively inhibits the growth of Saccharomyces cerevisiae.

Solubility Information

Solubility	DMSO: 55 mg/mL (549.23 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 2 mg/mL (19.97 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	9.986 mL	49.9301 mL	99.8602 mL
5 mM	1.9972 mL	9.986 mL	19.972 mL
10 mM	0.9986 mL	4.993 mL	9.986 mL
50 mM	0.1997 mL	0.9986 mL	1.9972 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

Edwards JA, et al. Antimicrob Agents Chemother, 2013.

De S, et al. Cell Biochem Biophys, 2011.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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