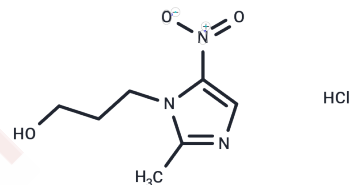


Ternidazole hydrochloride

Chemical Properties

CAS No. :	70028-95-4
Formula:	C7H12ClN3O3
Molecular Weight:	221.64
Storage:	Keep away from moisture, Store at low temperature 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	Ternidazole hydrochloride (Ternidazole HCl) is a 5-nitroimidazole antibiotic with antimicrobial antioxidant and antiprotozoal activity.
Targets(IC50)	Antioxidant, Endogenous Metabolite, Antibacterial

Solubility Information

Solubility	DMSO: 250 mg/mL (1127.96 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: 5 mg/mL (22.56 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	4.5118 mL	22.5591 mL	45.1182 mL
5 mM	0.9024 mL	4.5118 mL	9.0236 mL
10 mM	0.4512 mL	2.2559 mL	4.5118 mL
50 mM	0.0902 mL	0.4512 mL	0.9024 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

Mahé N, et al. Solid-state studies of the triclinic ($Z' = 2$) antiprotozoal drug ternidazole. J Pharm Sci. 2011 Jun;100(6):2258-66.

Mitrowska K, et al. Development and validation of a liquid chromatography with tandem mass spectrometry method for the determination of nitroimidazole residues in beeswax. J Sep Sci. 2017 Mar;40(5):1158-1166.

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