

Hydroxy Dimetridazole

Chemical Properties

CAS No. :	936-05-0
Formula:	C ₅ H ₇ N ₃ O ₃
Molecular Weight:	157.127
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	Hydroxy Dimetridazole is a hydroxy metabolite of Dimetridazole which combats protozoan infections.
Targets(IC50)	Parasite, Drug Metabolite

Solubility Information

Solubility	DMF: 30.00 mg/mL (190.93 mM), Sonication is recommended. DMSO: 50.00 mg/mL (318.21 mM), Sonication is recommended. PBS (pH 7.2): 1.00 mg/mL (6.36 mM), Sonication is recommended. Ethanol: 3.00 mg/mL (19.09 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: 2.00 mg/mL (12.73 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	6.3642 mL	31.8208 mL	63.6416 mL
5 mM	1.2728 mL	6.3642 mL	12.7283 mL
10 mM	0.6364 mL	3.1821 mL	6.3642 mL
50 mM	0.1273 mL	0.6364 mL	1.2728 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

Cronly M, et al. Rapid confirmatory method for the determination of 11 nitroimidazoles in egg using liquid chromatography tandem mass spectrometry. J Chromatogr A. 2009;1216(46):8101-8109.

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Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481