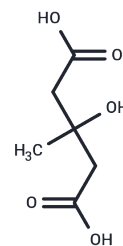


## Meglutol

## Chemical Properties

CAS No. :	503-49-1
Formula:	C <sub>6</sub> H <sub>10</sub> O <sub>5</sub>
Molecular Weight:	162.14
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	Meglutol (3-Hydroxy-3-methylglutaric acid) is an antilipemic agent which lowers cholesterol, triglycerides, serum beta-lipoproteins and phospholipids. It acts by interfering with the enzymatic steps involved in the conversion of acetate to hydroxymethyl glutaryl coenzyme A as well as inhibiting the activity of HYDROXYMETHYLGLUTARYL COA REDUCTASES which is the rate-limiting enzyme in the biosynthesis of cholesterol.
Targets(IC50)	Endogenous Metabolite,HMG-CoA Reductase,Autophagy

## Solubility Information

Solubility	Ethanol: 100 mg/mL (616.75 mM),Sonication is recommended. DMSO: 250 mg/mL (1541.88 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 (12.34 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

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	<b>1mg</b>	<b>5mg</b>	<b>10mg</b>
1 mM	6.1675 mL	30.8375 mL	61.6751 mL
5 mM	1.2335 mL	6.1675 mL	12.335 mL
10 mM	0.6168 mL	3.0838 mL	6.1675 mL
50 mM	0.1234 mL	0.6168 mL	1.2335 mL

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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

Santarelli F, et al. Ital J Pediatr. 2013 May 24;39:33.

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