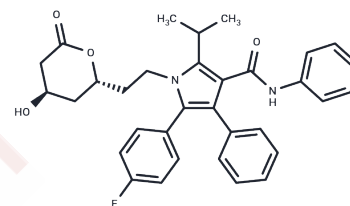


## Atorvastatin lactone

## Chemical Properties

CAS No. :	125995-03-1
Formula:	C <sub>33</sub> H <sub>33</sub> FN <sub>2</sub> O <sub>4</sub>
Molecular Weight:	540.62
Storage:	Keep away from direct sunlight Powder: -20°C for 3 years   In solvent: -80°C for 1 year <i>Actual storage temperature shall be subject to the COA.</i>



## Biological Description

Description	Atorvastatin lactone is a prodrug form of atorvastatin. Which is an orally active 3-hydroxy-3-methylglutaryl coenzyme A (HMG-CoA) reductase inhibitor.
Targets(IC50)	HMG-CoA Reductase

## Solubility Information

Solubility	DMSO: 25 mg/mL (46.24 mM), Sonication and heating to 60°C are recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Corn Oil: 2 mg/mL (3.7 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	1.8497 mL	9.2486 mL	18.4973 mL
5 mM	0.3699 mL	1.8497 mL	3.6995 mL
10 mM	0.185 mL	0.9249 mL	1.8497 mL
50 mM	0.037 mL	0.185 mL	0.3699 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

Valesky RJ, et al. Automated enzyme inhibition assay method for the determination of atorvastatin-derived HMG-CoA reductase inhibitors in human plasma using radioactivity detection. J Pharmacol Toxicol Methods. 2008 Jan-Feb;57(1):61-9.

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