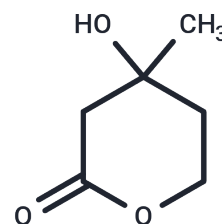


## DL-Mevalonolactone

## Chemical Properties

CAS No. :	674-26-0
Formula:	C <sub>6</sub> H <sub>10</sub> O <sub>3</sub>
Molecular Weight:	130.14
Storage:	High Volatility Pure form: -20°C for 3 years   In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



## Biological Description

Description	DL-Mevalonolactone, a human endogenous metabolite, is the $\delta$ -lactone form of mevalonate, a precursor of the mevalonate pathway. It reduces mitochondrial membrane potential ( $\Delta\Psi_m$ ), Ca <sup>2+</sup> retention and NAD(P)H levels in the brain, and also induces mitochondrial swelling. DL-Mevalonolactone induces inflammation and oxidative stress, and reduces mitochondrial membrane potential.
Targets(IC50)	Endogenous Metabolite

## Solubility Information

Solubility	DMSO: 45 mg/mL (345.78 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 (15.37 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	7.684 mL	38.4202 mL	76.8403 mL
5 mM	1.5368 mL	7.684 mL	15.3681 mL
10 mM	0.7684 mL	3.842 mL	7.684 mL
50 mM	0.1537 mL	0.7684 mL	1.5368 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

Endo A, et al. J Lipid Res. 1992 Nov; 33(11):1569-82.

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