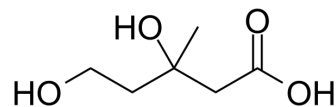


Mevalonic acid

Cat. No.:	HY-113071		
CAS No.:	150-97-0		
Molecular Formula:	C ₆ H ₁₂ O ₄		
Molecular Weight:	148.16		
Target:	Endogenous Metabolite		
Pathway:	Metabolic Enzyme/Protease		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



BIOLOGICAL ACTIVITY

Description	Mevalonic acid (MVA) is a precursor substance of the mevalonate pathway, which is essential for cell growth and proliferation. Mevalonic acid is effective in inhibiting Simvastatin (HY-17502)-induced decrease in C2C12 cell viability in vitro. Mevalonic acid can be used in studies of myopathy and heart failure ^{[1][2]} .								
In Vitro	<p>Mevalonic acid (80, 90, 100, 110 μM; 72 h) shows prevention of simvastatin-induced loss of viability of C2C12 myotube cells in vitro^[1].</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p> <p>Cell Viability Assay^[1]</p> <table border="1"> <tr> <td>Cell Line:</td> <td>C2C12 cells (simvastatin-induced)</td> </tr> <tr> <td>Concentration:</td> <td>80, 90, 100, 110 μM</td> </tr> <tr> <td>Incubation Time:</td> <td>72 h</td> </tr> <tr> <td>Result:</td> <td>Showed no decline in cell viability.</td> </tr> </table>	Cell Line:	C2C12 cells (simvastatin-induced)	Concentration:	80, 90, 100, 110 μM	Incubation Time:	72 h	Result:	Showed no decline in cell viability.
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Concentration:	80, 90, 100, 110 μM								
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Result:	Showed no decline in cell viability.								

CUSTOMER VALIDATION

- Acta Pharm Sin B. 2023 Apr 17.
- Acta Pharmacol Sin. 2021 Feb 19.
- Cell Biosci. 2021 Oct 9;11(1):179.
- Biochim Biophys Acta Mol Cell Biol Lipids. 2022 Aug 16;159217.
- Biomedicines. 2022, 10(10), 2489.

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REFERENCES

- [1]. Moschetti A, et al. Coenzyme Q nanodisks counteract the effect of statins on C2C12 myotubes. *Nanomedicine*. 2021 Oct;37:102439.
- [2]. Soma MR, et al. Cholesterol and mevalonic acid modulation in cell metabolism and multiplication. *Toxicol Lett*. 1992 Dec;64-65 Spec No:1-15.
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Caution: Product has not been fully validated for medical applications. For research use only.

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