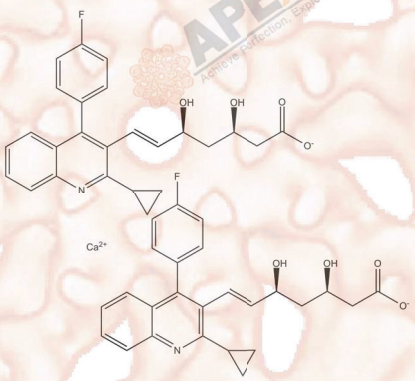
Product Data Sheet

Pitavastatin Calcium

Cat. No.: A8504
CAS No.: 147526-32-7
Formula: C50H46CaF2N2O8
M.Wt: 880.98
Synonyms:
Target: Metabolism
Pathway: HMG-CoA Reductase
Storage: Store at -20°C



Solvent & Solubility

In Vitro

≥34.85mg/mL in DMSO

Preparing Stock Solutions

Concentration \ Solvent \ Mass	1mg	5mg	10mg
1 mM	1.1351 mL	5.6755 mL	11.3510 mL
5 mM	0.2270 mL	1.1351 mL	2.2702 mL
10 mM	0.1135 mL	0.5675 mL	1.1351 mL

Please refer to the solubility information to select the appropriate solvent.

Biological Activity

Shortsummary	Enzyme HMGCR inhibitor
IC_{50} & Target	

In Vitro

Cell Viability Assay

Cell Line:	Huh-7 and SMMC7721 liver cancer cell lines
Preparation method:	The solubility of this compound in DMSO is >34.9mg/mL. General tips for obtaining a higher concentration: Please warm the tube at 37°C for 10 minutes and/or shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.
Reacting conditions:	0-20 μM
Applications:	In the liver cancer Huh-7 cells and SMMC7721 cells, pitavastatin inhibited cell

		growth in a dose-dependent way and inhibited colony formation. Pitavastatin significantly arrested the Huh-7 cells at the G1 phase and increased the proportion of sub-G1 phase cells. Pitavastatin induced apoptosis dependent of caspases.
In Vivo	**Animal experiment**	
	Animal models:	Experimental autoimmune myocarditis (EAM) BALB/c mice
	Dosage form:	5 mg/kg; 3 weeks from day 0 to day 21; orally
	Applications:	In experimental autoimmune myocarditis (EAM) BALB/c mice, pitavastatin reduced the pathophysiological severity of the myocarditis. Pitavastatin inhibited the phosphorylation of STAT3 and STAT4, and suppressed production of Th1 cytokine interferon-γ and Th17 cytokine interleukin-17 from autoreactive CD4+T cells in the heart.
	Other notes:	Please test the solubility of all compounds indoor, and the actual solubility may slightly differ with the theoretical value. This is caused by an experimental system error and it is normal.

Product Citations

See more customer validations on www.apexbt.com.

References

[1] You HY1, Zhang WJ1, Xie XM1, et al. Pitavastatin suppressed liver cancer cells in vitro and in vivo. Onco Targets Ther. 2016 Aug 29;9:5383-8.

[2]. Tajiri K1, Shimojo N, Sakai S, et al. Pitavastatin regulates helper T-cell differentiation and ameliorates autoimmune myocarditis in mice. Cardiovasc Drugs Ther. 2013 Oct;27(5):413-24.

Caution

FOR RESEARCH PURPOSES ONLY.

NOT FOR HUMAN, VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

Specific storage and handling information for each product is indicated on the product datasheet. Most APExBIO products are stable under the recommended conditions. Products are sometimes shipped at a temperature that differs from the recommended storage temperature. Shortterm storage of many products are stable in the short-term at temperatures that differ from that required for long-term storage. We ensure that the product is shipped under conditions that will maintain the quality of the reagents. Upon receipt of the product, follow the storage recommendations on the product data sheet.

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