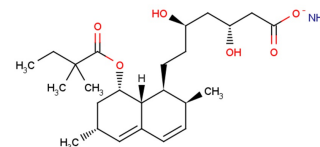


Simvastatin acid ammonium

Chemical Properties

CAS No.:	139893-43-9
Formula:	C ₂₅ H ₄₃ NO ₆
Molecular Weight:	453.61
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).



Biological Description

Description	Simvastatin ammonium is an active metabolite of simvastatin lactone mediated. Simvastatin ammonium reduces indoxyl sulfate-mediated reactive oxygen species and modulates OATP3A1 expression in cardiomyocytes and HEK293 cells transfected with the OATP3A1 gene.
Targets(IC ₅₀)	Human Endogenous Metabolite: None
In vitro	The Michaelis-Menten constant (K _m) for simvastatin acid uptake by OATP3A1 was 0.017 μ M and the V _{max} was 0.995 fmol/min/105 cells. There is a pH-dependent effect on organic anion transporting polypeptide 3A1 uptake, with more efficient simvastatin acid uptake at pH5.5 in HEK293 cells transfected with the OATP3A1 gene [1].

Solubility Information

Solubility	< 1 mg/ml refers to the product slightly soluble or insoluble
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.205 mL	11.023 mL	22.045 mL
5 mM	0.441 mL	2.205 mL	4.409 mL
10 mM	0.22 mL	1.102 mL	2.205 mL
50 mM	0.044 mL	0.22 mL	0.441 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

Reference

1. Atilano-Roque A, et al. Characterization of simvastatin acid uptake by organic anion transporting polypeptide 3A1 (OATP3A1) and influence of drug-drug interaction. Toxicol In Vitro. 2017 Dec;45(Pt 1):158-165.

Inhibitors · Natural Compounds · Compound Libraries

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