Product Data Sheet

Product Name: DL-3-Hydroxy-3-methylglutaryl coenzyme A disodium
Cat. No.: GC67635

Chemical Properties

Cas. No.	103476-21-7		
Formula	$C_{27}H_{44}N_7Na_2O_{20}P_3S$	M.Wt	957.64
Solubility	H_2O : 50 mg/mL (Need ultrasonic and warming)	Storage	Store at -20°C
General tips	For obtaining a higher solubility , please warm the tube at 37 ℃ and shake it in the ultrasonic bath for a while.Stock solution can be stored below -20℃ for several months.		
Shipping Condition	Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.		
Structure			

Background

DL-3-Hydroxy-3-methylglutaryl coenzyme A (HMG-CoA) disodium is a disodium salt compound of HMG-CoA, is a intermediate of terpenes and ketone bodies. DL-3-Hydroxy-3-methylglutaryl coenzyme A disodium also involves in ester metabolism in vivo, as a precursor for cholesterol synthesis, and regulates cholesterol synthesis by coupling **LDL receptor**[1][2].

3-hydroxy-3-methylglutaryl CoA (HMG-CoA) comes from acetyl-coa and acetyl-CoA converted from HMG-CoA synthetase, mainly dependents on oxidative reactions in mitochondria[1].

[1]. MillÁn NÚÑez-CortÉs J, et al. FÁrmacos hipolipemiantes y PCSK9 [Lipid-lowering drugs and PCSK9]. Clin Investig Arterioscler. 2016 May;28 Suppl 2:9-13. Spanish.
[2]. Wang Wei, er al. The Key Enzyme of Cholesterol Synthesis Pathway:HMG CoA Reductase and Disease. PROGRESS IN PHYSIOLOGICAL SCIENCES. 1999. (01):7-11.

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com
Address: 10292 Central Ave. #205, Montclair, CA, USA