Product Data Sheet

Product Name: S-2E
Cat. No.: GC67661

Chemical Properties

Cas. No.	155730-92-0		
Formula	$C_{22}H_{25}NO_4$	M.Wt	367.44
Solubility		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	S-2E		

Background

S-2E is an orally active and noncompetitive **HMG-CoA reductase** and **acetyl-CoA carboxylase** inhibitor. S-2E has an anti-hyperlipidemic action. S-2E has the potential for familial hypercholesterolemia and mixed hyperlipidemia research[1][2].

In the liver, S-2E is converted into its active metabolite, S-2E-CoA. S-2E-CoA noncompetitively inhibits the enzymatic activities of both 3-hydroxy-3-methylglutaryl coenzyme-A (HMG-CoA) reductase and acetyl-CoA carboxylase at K_i=18.11 μM and K_i=69.2 μM, respectively[1].

S-2E (3-30 mg/kg) given orally suppresses the secretion rate of very-low-density lipoprotein (VLDL)-cholesterol and triglyceride in Triton WR-1339-injected rats. Furthermore, S-2E lowers the blood total cholesterol and triglyceride levels simultaneously in Zucker fatty rats[1].

[1]. Koichi Ohmori, et al. Anti-hyperlipidemic action of a newly synthesized benzoic acid derivative, S-2E. Eur J Pharmacol. 2003 Jun 13;471(1):69-76.
[2]. K Ohmori, et al. Effects of a novel antihyperlipidemic agent, S-2E, on the blood lipid abnormalities in homozygous WHHL rabbits. Metabolism. 2004 May;53(5):680-5.

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