

E-5324

Chemical Properties

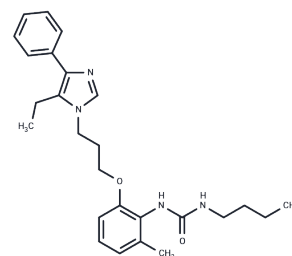
CAS No. : 141799-76-0

Formula: C₂₆H₃₄N₄O₂

Molecular Weight: 434.57

Appearance: no data available

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year



Biological Description

Description	E-5324 is potent cholesterol acyltransferase (ACAT) inhibitor (IC ₅₀ s: 44 to 190 nM).
Targets(IC ₅₀)	Others
In vitro	E-5324 inhibits the incorporation of [3H]oleate into cholesteryl [3H]oleate in a concentration-dependent manner (IC ₅₀ : 0.44 μM) and it also inhibits [3H]cholesteryl ester synthesis (IC ₅₀ : 0.41 μM). E-5324 displays no effect on triglyceride synthesis up to 10 μM and it also has no effect on bovine pancreatic cholesterol esterase or lecithin: cholesterol acyltransferase (LCAT) up to 10 μM [1].
In vivo	Treatment with E-5324 significantly reduces both the wet weight and protein content. A high dose of E-5324 (0.1%) notably decreases the surface involvement by 34% in the aortic arch and by 54% in the thoracic aorta. At the same concentration, it substantially lowers cholesteryl ester and total cholesterol levels in the aortic arch by 60% and 59%, respectively. Furthermore, this dosage markedly reduces ACAT activities in the aortic arch and thoracic aorta by 35% and 44%, respectively. The area under the cholesterol-time curves (AUC) for the duration of the study for control, 0.02% E-5324, and 0.1% E-5324 are 104985±4411, 106096±4476, and 105231±4348 mg×day/dL, respectively [2].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.3011 mL	11.5056 mL	23.0113 mL
5 mM	0.4602 mL	2.3011 mL	4.6023 mL
10 mM	0.2301 mL	1.1506 mL	2.3011 mL
50 mM	0.046 mL	0.2301 mL	0.4602 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Reference

Kogushi M, et al. Effect of E5324, a novel inhibitor of acyl-CoA:cholesterol acyltransferase, on cholesteryl ester synthesis and accumulation in macrophages. Jpn J Pharmacol. 1995 Jun;68(2):191-9.

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