Data Sheet (Cat.No.T13622)

TargetMol

Cholestyramine

Chemical Properties

CAS No. : 11041-12-6

Formula:

Molecular Weight:

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year
Actual storage temperature shall be subject to the COA.

Biological Description

Description	Cholestyramine (Cholestyramine resin), a bile acid-binding resin, inhibits intestinal bile acid absorption which results in the increasing bile acid synthesis from cholesterol.
Targets(IC50)	Others
In vivo	GSPE treatment alone, and co-administration with Cholestyramine (Colestyramine), regulate BA, cholesterol and TG metabolism differently compare to Cholestyramine administration alone. Notably, GSPE decreases intestinal apical sodium-dependent bile acid transporter (Asbt) gene expression, while Cholestyramine significantly induces expression. Administration with GSPE or Cholestyramine robustly induces hepatic BA biosynthetic gene expression, especially cholesterol 7α-hydroxylase (Cyp7a1), compare to control, while co-administration further enhances expression. Treatment with Cholestyramine induces both intestinal and hepatic cholesterologenic gene expression, while co-administration with GSPE attenuates the Cholestyramine-inducing increase in the liver but not in the intestine. Cholestyramine also induces hepatic lipogenic gene expression, which is attenuated by co-administration with GSPE [2].

Solubility Information

Solubility	H2O: < 0.1 mg/mL (insoluble), DMSO: < 1 mg/mL (insoluble or slightly soluble), (< 1 mg/ml refers to the product slightly soluble or insoluble)

Reference

Maugeais C, et al. rHDL administration increases reverse cholesterol transport in mice, but is not additive on top of ezetimibe or cholestyramine treatment. Atherosclerosis. 2013 Jul;229(1):94-101.

Rebecca M. Heidker, et al. Grape Seed Procyanidins and Cholestyramine Differentially Alter Bile Acid and Cholesterol Homeostatic Gene Expression in Mouse Intestine and Liver. PLoS One. 2016; 11(4): e0154305.

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