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Diagnostik & molekulare Diagnostik



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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

mail@szabo-scandic.com

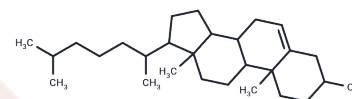
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Cholesterol

Chemical Properties

CAS No. :	57-88-5
Formula:	C ₂₇ H ₄₆ O
Molecular Weight:	386.664
Appearance:	no data available
Storage:	store at low temperature, store under nitrogen Powder: -20°C for 3 years In solvent: -80°C for 1 year



Biological Description

Description	Cholesterol (cholesteryl alcohol) is a natural product that is the major sterol in mammals and an agonist of estrogen-related receptor α (ERR α). Cholesterol is widely found in the cell membranes of animals and is also used in the synthesis of several important hormones and bile acids.
Targets(IC50)	Estrogen Receptor/ERR,MRP,Endogenous Metabolite,ROR
In vitro	<p>METHODS: CD4+ T lymphocytes were incubated with 7-KC (17.5-70 μM) and Cholesterol-MβCD (17.5-70 μM) for 10 min, and T cell membrane order and disorder were assessed using di-4 ANEPPDHQ fluorescent dye.</p> <p>RESULTS: After exposure to 7-KC, T cell membrane order was altered in a dose-dependent manner, with significant reconstitution of membrane order observed only in cells treated with 35 μM Cholesterol, while reconstitution with 17.5 μM Cholesterol induced minimal effects. [1]</p> <p>METHODS: Human gastric cancer cells SNU601, SNU638 and SNU216 were treated with Cholesterol (25-100 μM) for 48 h and cell viability was measured using MTT Assay.</p> <p>RESULTS: Cholesterol caused a dose-dependent decrease in cell viability in all three cell lines. [2]</p>
In vivo	<p>METHODS: To induce hypercholesterolemia, STD:ddY mice were fed a high cholesterol diet (1% cholesterol, 0.5% cholic acid, 0.5% olive oil and 93% standard mouse chow).</p> <p>RESULTS: Cholesterol can be used to construct a mouse model of hypercholesterolemia. [3]</p> <p>METHODS: To induce hyperlipidemia, CD-1 mice were fed a high cholesterol diet (2% cholesterol and 0.6% sodium deoxycholate).</p> <p>RESULTS: Cholesterol can be used to construct a mouse model of hyperlipidemia. [4]</p>

Solubility Information

Solubility	DMSO: Insoluble, Ethanol: 10 mg/mL (25.86 mM) H ₂ O: Insoluble, (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.5863 mL	12.9313 mL	25.8625 mL
5 mM	0.5173 mL	2.5863 mL	5.1725 mL
10 mM	0.2586 mL	1.2931 mL	2.5863 mL
50 mM	0.0517 mL	0.2586 mL	0.5173 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

Qiao S, Bao L, Wang K, et al. Activation of a Specific Gut Bacteroides-Folate-Liver Axis Benefits for the Alleviation of Nonalcoholic Hepatic Steatosis. *Cell Reports*. 2020, 32(6): 108005

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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Tel:781-999-4286 E_mail:info@targetmol.com Address:36 Washington Street,Wellesley Hills,MA 02481