

Produktinformation



Forschungsprodukte & Biochemikalien
Zellkultur & Verbrauchsmaterial
Diagnostik & molekulare Diagnostik
Laborgeräte & Service

Weitere Information auf den folgenden Seiten! See the following pages for more information!



Lieferung & Zahlungsart siehe unsere Liefer- und Versandbedingungen

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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Data Sheet (Cat.No.T2721)



Digitonin

Chemical Proper	ties
CAS No. :	11024-24-1
Formula:	C56H92O29
Molecular Weight:	1229.31
Appearance:	no data available
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year

Biological Descrip	tion
Description	Digitonin is a natural product of the glycoside family and is a detergent. Digitonin has antitumor activity, binds to cholesterol molecules to increase the permeability of cell membranes, and is active in the cleavage of cell membranes in a wide range of cells.
Targets(IC50)	Others
In vitro	 METHODS: Rat adrenal pheochromocytoma cells PC-12 were treated with Digitonin (10 µg/mL) for 10 min to increase cell permeability. RESULTS: After permeabilization with Digitonin, PC12 cells could be stimulated to release norepinephrine by micromolar concentrations of free Ca2+. [1] METHODS: Human glioblastoma cells U87 were treated with Digitonin (1-5 µg/mL) for 20 min, and cell viability was measured by MTT after overnight cell incubation. RESULTS: 1 µg/mL Digitonin treatment resulted in a slight increase in cell viability, 3 µg/mL Digitonin reduced the growth-promoting effect, and the cell viability was similar to that of the control, and 5 µg/mL Digitonin inhibited the cell viability, which indicated a significant toxicity to the cells. [2] METHODS: Immortalized human T-lymphocytes Jurkat were treated with Digitonin (1-4 µg/mL) for 20 min and cell viability was measured by Resazurin assay. RESULTS: Digitonin treatment resulted in a significant decrease in metabolic activity and this inhibition was concentration-dependent. [2]
In vivo	METHODS : To determine whether Digitonin enhances the efficacy of CBDCA in vivo, Digitonin (0.2 mL 400 μM) was hepatic arterially infused into LH rats bearing hepatocellular carcinoma tumors, followed by injection of CBDCA 10 min later. RESULTS : Digitonin pretreatment increased the tumor uptake of CBDCA and enhanced the cytotoxic effect of CBDCA. [3]

Solubility Information	
Solubility	DMSO: 27.5 mg/mL (22.37 mM), (< 1 mg/ml refers to the product slightly soluble or insoluble)

A DRUG SCREENING EXPERT

Preparing Stock Solutions

repaining stock solutions				
× ·	1mg	5mg	10mg	
1 mM	0.8135 mL	4.0673 mL	8.1346 mL	
5 mM	0.1627 mL	0.8135 mL	1.6269 mL	
10 mM	0.0813 mL	0.4067 mL	0.8135 mL	
50 mM	0.0163 mL	0.0813 mL	0.1627 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

Schäfer T, et al. Digitonin-permeabilized cells are exocytosis competent. J Neurochem. 1987 Dec;49(6):1697-707. Chen Y, Wang X, Shi H, et al. Montelukast Inhibits HCoV-OC43 Infection as a Viral Inactivator. Viruses. 2022, 14(5):

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