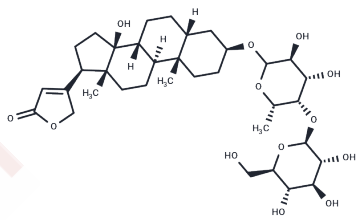
Data Sheet (Cat.No.TN2430)

TargetMol

Glucodigifucoside

Chemical Properties



CAS No. : 2446-63-1

Formula: C35H54O13

Molecular Weight: 682.8

Storage: Store at low temperature,Keep away from direct sunlight
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	Glucodigifucoside, a cardiac glycoside that can be isolated from digitalis seeds, is specifically cytotoxic to human renal adenocarcinoma cells.
Targets(IC50)	Others
In vitro	Glucodigifucoside exhibited potent and carcinoma-specific cytotoxicity, with a six-fold lower IC50 value against ACHN than that against HK-2. Measurement of cyclin-dependent kinase inhibitor levels revealed that upregulation of p21/Cip1 expression was involved in the carcinomaspecific cytotoxicity of 2. Further, Glucodigifucoside also exhibited carcinoma-specific cytotoxicity toward the hepatocellular carcinoma cell line. [1]

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.4646 mL	7.3228 mL	14.6456 mL
5 mM	0.2929 mL	1.4646 mL	2.9291 mL
10 mM	0.1465 mL	0.7323 mL	1.4646 mL
50 mM	0.0293 mL	0.1465 mL	0.2929 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.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Tomofumi Fujino, et al. Cardenolide glycosides from the seeds of Digitalis purpurea exhibit carcinoma-specific cytotoxicity toward renal adenocarcinoma and hepatocellular carcinoma cells. Biosci Biotechnol Biochem. 2015;79 (2):177-84.

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