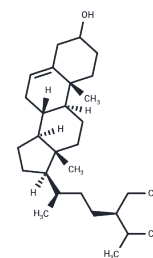


Stigmast-5-en-3-ol

Chemical Properties

CAS No. :	5779-62-4
Formula:	C ₂₉ H ₅₀ O
Molecular Weight:	414.71
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year <i>Actual storage temperature shall be subject to the COA.</i>



Biological Description

Description	Stigmast-5-en-3-ol induces apoptosis in cancer cells and inhibits cellular proliferation by increasing the production of Bax, Caspase-9, p53, and promoting PARP cleavage, while reducing Bcl-xl expression. It exhibits potent inhibitory activity against glucose amylase and α -amylase (α -amylase), and demonstrates high antioxidant activity. This compound is applicable in research related to leukemia, breast cancer, type 2 diabetes, and obesity.
Targets(IC50)	Apoptosis,Bcl-2 Family,Caspase,Amylase,PARP,MDM-2/p53
In vitro	Stigmast-5-en-3-ol (Compound DGEH21-3-2) exhibits cytotoxic effects on HL-60 and MCF-7 cells at concentrations of 12.5-50 μ g/mL over a 24-hour period, with IC ₅₀ values of 37.82 and 45.17 μ g/mL, respectively. It induces apoptosis in these cell lines, enhances DNA damage, and increases the levels of Bax, Caspase-9, p53, and PARP cleavage while reducing Bcl-xl. Additionally, Stigmast-5-en-3-ol (Compound 24R) at 2-10 μ g/mL for 30 minutes strongly inhibits glucose amylase and α -amylase, with IC ₅₀ values of 5.8 and 7.198 μ g/mL, and demonstrates significant radical activity.

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.4113 mL	12.0566 mL	24.1132 mL
5 mM	0.4823 mL	2.4113 mL	4.8226 mL
10 mM	0.2411 mL	1.2057 mL	2.4113 mL
50 mM	0.0482 mL	0.2411 mL	0.4823 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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

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