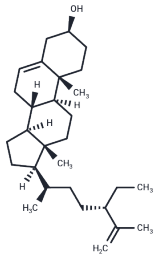
Data Sheet (Cat.No.TN3681)

TargetMol

Clerosterol

Chemical Properties



CAS No. : 2364-23-0

Formula: C29H48O

Molecular Weight: 412.69

Storage: 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	Clerosterol ((-)-Clerosterol) is a small molecule compound derived from Roasted bupleuri in vinegar that inhibits Pgp overexpression. Clerosterol shows cytotoxicity to human melanoma cells and can be used to study the loss of mitochondrial membrane potential.
Targets(IC50)	Apoptosis,Bcl-2 Family,Others,Caspase
In vitro	Clerosterol is a natural compound with certain antioxidant and anticancer activities[3].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.4231 mL	12.1156 mL	24.2313 mL
5 mM	0.4846 mL	2.4231 mL	4.8463 mL
10 mM	0.2423 mL	1.2116 mL	2.4231 mL
50 mM	0.0485 mL	0.2423 mL	0.4846 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

Kim AD, et al. Cytotoxic effect of clerosterol isolated from Codium fragile on A2058 human melanoma cells. Mar Drugs. 2013 Feb 6;11(2):418-30.
Mohan Maruga Raja MK, et al. Comprehensive review of Clerodendrum phlomidis: a traditionally used bitter. Zhong Xi Yi Jie He Xue Bao. 2010 Jun;8(6):510-24.
Kim AD, et al. Cytotoxic effect of clerosterol isolated from Codium fragile on A2058 human melanoma cells. Mar Drugs. 2013 Feb 6;11(2):418-30.

Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481