

Lumisterol

Chemical Properties

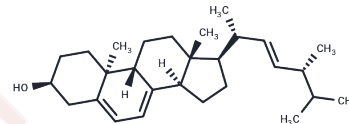
CAS No. : 474-69-1

Formula: C₂₈H₄₄O

Molecular Weight: 396.659

Storage: 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	Lumisterol (9β,10α-Ergosterol), the (9β,10α)-stereoisomer of Ergosterol, is a steroid compound that acts as a photoprotective agent against UVB-induced DNA damage and demonstrates anti-proliferative activities[1].
Targets(IC50)	Others,Endogenous Metabolite

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.5211 mL	12.6053 mL	25.2105 mL
5 mM	0.5042 mL	2.5211 mL	5.0421 mL
10 mM	0.2521 mL	1.2605 mL	2.5211 mL
50 mM	0.0504 mL	0.2521 mL	0.5042 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

Anyamane Chaiprasongsuk, et al. Protective Effects of Novel Derivatives of Vitamin D 3 and Lumisterol Against UVB-induced Damage in Human Keratinocytes Involve Activation of Nrf2 and p53 Defense Mechanisms. Redox Biol. 2019 Jun;24:101206.

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