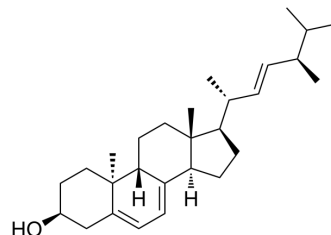


Lumisterol

Cat. No.:	HY-N0181A
CAS No.:	474-69-1
Molecular Formula:	C ₂₈ H ₄₄ O
Molecular Weight:	396.65
Target:	Endogenous Metabolite
Pathway:	Metabolic Enzyme/Protease
Storage:	-20°C, protect from light, stored under nitrogen * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light, stored under nitrogen)



SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (252.11 mM; ultrasonic and warming and heat to 60°C)																					
	<table border="1"> <thead> <tr> <th rowspan="2">Solvent</th> <th rowspan="2">Mass</th> <th colspan="3">Concentration</th> </tr> <tr> <th>1 mg</th> <th>5 mg</th> <th>10 mg</th> </tr> </thead> <tbody> <tr> <td rowspan="3">Preparing Stock Solutions</td> <td>1 mM</td> <td>2.5211 mL</td> <td>12.6056 mL</td> <td>25.2111 mL</td> </tr> <tr> <td>5 mM</td> <td>0.5042 mL</td> <td>2.5211 mL</td> <td>5.0422 mL</td> </tr> <tr> <td>10 mM</td> <td>0.2521 mL</td> <td>1.2606 mL</td> <td>2.5211 mL</td> </tr> </tbody> </table>	Solvent	Mass	Concentration			1 mg	5 mg	10 mg	Preparing Stock Solutions	1 mM	2.5211 mL	12.6056 mL	25.2111 mL	5 mM	0.5042 mL	2.5211 mL	5.0422 mL	10 mM	0.2521 mL	1.2606 mL	2.5211 mL
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	Please refer to the solubility information to select the appropriate solvent.																					
In Vivo	<ol style="list-style-type: none"> Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.5 mg/mL (6.30 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (6.30 mM); Clear solution 																					

BIOLOGICAL ACTIVITY

Description	Lumisterol (9β,10α-Ergosterol), a steroid compound, is the (9β,10α)-stereoisomer of Ergosterol (HY-N0181). Lumisterol is a photoprotective agent against UVB-induced DNA damage and anti-proliferative activities ^[1] .
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REFERENCES

[1]. Anyamanee Chairprasongsuk, 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.

Caution: Product has not been fully validated for medical applications. For research use only.

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