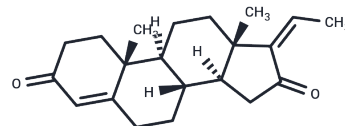


(Z)-Guggulsterone

Chemical Properties

CAS No. :	39025-23-5
Formula:	C ₂₁ H ₂₈ O ₂
Molecular Weight:	312.45
Appearance:	no data available
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year



Biological Description

Description	(Z)-Guggulsterone inhibits the growth of human prostate cancer cells by causing apoptosis. Z-guggulsterone inhibits angiogenesis by suppressing the VEGF-VEGF-R2-Akt signaling axis.
Targets(IC50)	Apoptosis, VEGFR, Akt
In vitro	In HUVEC, Z-guggulsterone (10, 20 μ M; 24 or 48 hours) induces a reduction in the level of VEGF-R2 protein [1].
In vivo	In tumor volume and wet tumor weight, Z-guggulsterone (p.o.; 1 mg; 5 times/week) causes a statistically significant reduction [1].

Solubility Information

Solubility	DMSO: 10 mg/mL (32.01 mM), (< 1 mg/mL refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.2005 mL	16.0026 mL	32.0051 mL
5 mM	0.6401 mL	3.2005 mL	6.401 mL
10 mM	0.3201 mL	1.6003 mL	3.2005 mL
50 mM	0.064 mL	0.3201 mL	0.6401 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.

Reference

Wu Y, Zhou T, Qian D, et al. Z-Guggulsterone Induces Cell Cycle Arrest and Apoptosis by Targeting the p53/CCNB1/PLK1 Pathway in Triple-Negative Breast Cancer. ACS Omega. 2023

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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