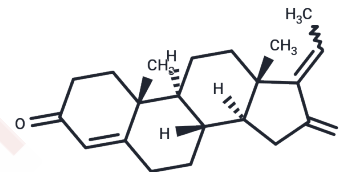


Guggulsterone

Chemical Properties

CAS No. :	95975-55-6
Formula:	C ₂₁ H ₂₈ O ₂
Molecular Weight:	312.45
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	Guggulsterone (Guggulsterone E&Z) E&Z is a 3-hydroxy steroid. It has a role as an androgen.
Targets(IC50)	Apoptosis,FXR,Akt,Caspase,Autophagy,JNK
In vivo	Guggulsterone E&Z inhibits the growth of a wide variety of tumor cells and induces apoptosis through down regulation of antiapoptotic gene products (IAP1, xIAP, Bfl-1/A1, Bcl-2, cFLIP, and survivin), modulation of cell cycle proteins (cyclin D1 and c-Myc), activation of caspases, inhibition of Akt, and activation of JNK. Guggulsterone E&Z modulates the expression of gene products involved in metastasis (MMP-9, COX-2, and VEGF) of tumor cells.

Solubility Information

Solubility	DMSO: 22.73 mg/mL (72.75 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Corn Oil: 1 mg/mL (3.2 mM),Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

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.

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

Jackson D A , Rosenzweig J A , Azu N , et al. Guggulsterone for Chemoprevention of Cancer[J]. Current Pharmaceutical Design, 2016, 22(3):-.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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