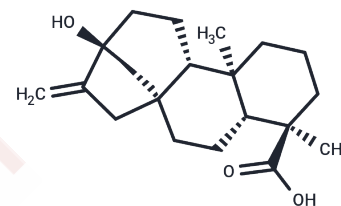


Steviol

Chemical Properties

CAS No. :	471-80-7
Formula:	C ₂₀ H ₃₀ O ₃
Molecular Weight:	318.45
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	1. Steviol (NSC-226902), a natural sweetener, it inhibits proliferation of the gastrointestinal cancer cells intensively. 2. Steviol can induce a significant increase in CYP3A29 expression. 3. Steviol inhibits the proliferation of the human osteosarcoma U2OS cell line in a dose- and time-dependent manner. 4. Steviol can treat polycystic kidney disease, it slowed cyst growth, in part, by reducing AQP2 transcription, promoted proteasome, and lysosome-mediated AQP2 degradation.
Targets(IC50)	Others,Aquaporin,CFTR,Chloride channel

Solubility Information

Solubility	DMSO: 125 mg/mL (392.53 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 2 mg/mL (6.28 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	3.1402 mL	15.7011 mL	31.4021 mL
5 mM	0.628 mL	3.1402 mL	6.2804 mL
10 mM	0.314 mL	1.5701 mL	3.1402 mL
50 mM	0.0628 mL	0.314 mL	0.628 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

Chen J , Xia Y , Sui X , et al. Steviol, a natural product inhibits proliferation of the gastrointestinal cancer cells intensively[J]. Oncotarget, 2018, 9(41).

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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