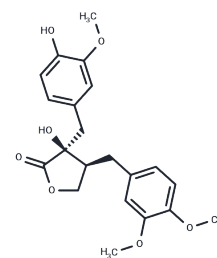


Trachelogenin

Chemical Properties

CAS No. :	34209-69-3
Formula:	C ₂₁ H ₂₄ O ₇
Molecular Weight:	388.41
Storage:	Store at low temperature Powder: -20°C for 3 years In solvent: -80°C for 1 year <i>Actual storage temperature shall be subject to the COA.</i>



Biological Description

Description	Trachelogenin ((-)-Trachelogenin), isolated from Combretum fruticosum, is an HCV entry inhibitor with anti-proliferative effects. Its mechanism is related to affecting the phosphorylation of key proteins such as β -Catenin, c-Myc and GSK3 in the β -Catenin signaling pathway. chemical and concentration-dependent. Trachelogenin has antiviral, anti-inflammatory and analgesic activities with IC ₅₀ of 0.325 and 0.259 μ g/mL in HCVcc and HCVpp models, respectively.
Targets(IC ₅₀)	HCV Protease,c-Myc,Virus Protease,Wnt/beta-catenin
In vitro	Trachelogenin is an infection and HCVpp cell entry in a dose-dependent manner with an IC ₅₀ of 0.325 and 0.259 μ g/mL in HCVcc and HCVpp models, respectively. Trachelogenin exhibits effective antiviral, anti-inflammatory, and analgesic effects.[1]

Solubility Information

Solubility	DMSO: 77.68 mg/mL (199.99 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Corn Oil: 3.3 mg/mL (8.5 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	2.5746 mL	12.873 mL	25.746 mL
5 mM	0.5149 mL	2.5746 mL	5.1492 mL
10 mM	0.2575 mL	1.2873 mL	2.5746 mL
50 mM	0.0515 mL	0.2575 mL	0.5149 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

Qian XJ, et al. Trachelogenin, a novel inhibitor of hepatitis C virus entry through CD8J Gen Virol. 2016;97(5):1134-1144.

Koeh PK, et al. Anti-glutamatergic Effects of Three Lignan Compounds: Arctigenin, Matairesinol and Trachelogenin - An ex vivo Study on Rat Brain Slices. Planta Med. 2023;89(9):879-889.

Mervai Z, et al. Endogenous enzyme-hydrolyzed fruit of *Cirsium brachycephalum*: optimal source of the antiproliferative lignan trachelogenin regulating the Wnt/ β -catenin signaling pathway in the SW480 colon adenocarcinoma cell line. Fitoterapia. 2015;100:19-26.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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