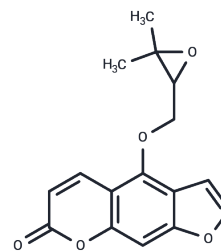


Oxypeucedanin

Chemical Properties

CAS No. :	737-52-0
Formula:	C ₁₆ H ₁₄ O ₅
Molecular Weight:	286.28
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. Oxypeucedanin ((+/-)-Oxypeucedanin) has novel anticancer effect, mediated via induction of G2-M cell cycle arrest and apoptosis in human prostate carcinoma DU145 cells. 2. Oxypeucedanin is a kind of open-channel blocker of the hKv1.5 channel and it prolongs the APD; therefore, it is an excellent candidate as an antiarrhythmic drug for atrial fibrillation.
Targets(IC50)	Apoptosis,ERK,NF-κB,Akt,NO Synthase,COX,JNK,p38 MAPK,PI3K,Potassium Channel

Solubility Information

Solubility	DMSO: 6.88 mg/mL (24.03 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: 1 mg/mL (3.49 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	3.4931 mL	17.4654 mL	34.9308 mL
5 mM	0.6986 mL	3.4931 mL	6.9862 mL
10 mM	0.3493 mL	1.7465 mL	3.4931 mL
50 mM	0.0699 mL	0.3493 mL	0.6986 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

Choi J S , Shin H Y , Kwon K S , et al. Effects of Oxypeucedanin on Global Gene Expression and MAPK Signaling Pathway in Mouse Neuroblastoma Neuro-2A Cells[J]. Planta Medica, 2011, 77(13):1512-1518.

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