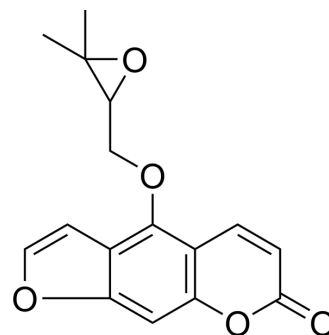


Oxypeucedanin

Cat. No.:	HY-N0747
CAS No.:	737-52-0
Molecular Formula:	C ₁₆ H ₁₄ O ₅
Molecular Weight:	286.28
Target:	Potassium Channel; Apoptosis
Pathway:	Membrane Transporter/Ion Channel; Apoptosis
Storage:	4°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



SOLVENT & SOLUBILITY

In Vitro	DMSO : 12.5 mg/mL (43.66 mM; ultrasonic and warming and heat to 60°C)					
		Solvent Concentration	Mass	1 mg	5 mg	10 mg
	Preparing Stock Solutions	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	
Please refer to the solubility information to select the appropriate solvent.						
In Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.5 mg/mL (8.73 mM); Clear solution					
	2. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (8.73 mM); Clear solution					

BIOLOGICAL ACTIVITY

Description	Oxypeucedanin is a furocoumarin derivative isolated from <i>Angelica dahurica</i> . Oxypeucedanin is a selective open-channel blocker, inhibits the hKv1.5 current with an IC ₅₀ value of 76 nM. Oxypeucedanin prolongs cardiac action potential duration (APD), is a potential antiarrhythmic agent for atrial fibrillation ^[1] . Oxypeucedanin induces cell apoptosis through inhibition of cancer cell migration ^[2] .
IC ₅₀ & Target	IC50: HKv1.5 current; apoptosis ^[1]

REFERENCES

[1]. Eun JS, et al. Effects of oxypeucedanin on hKv1.5 and action potential duration. *Biol Pharm Bull.* 2005 Apr;28(4):657-60.

Caution: Product has not been fully validated for medical applications. For research use only.

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