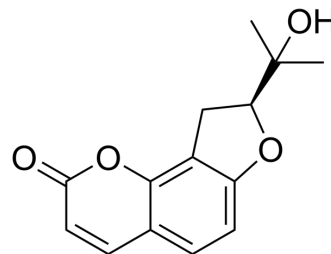


(+)-Columbianetin

Cat. No.:	HY-N0363
CAS No.:	3804-70-4
Molecular Formula:	C ₁₄ H ₁₄ O ₄
Molecular Weight:	246.26
Target:	Fungal
Pathway:	Anti-infection
Storage:	4°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (406.07 mM; Need ultrasonic)				
	Preparing Stock Solutions	Solvent Concentration	1 mg	5 mg	10 mg
		1 mM	4.0607 mL	20.3037 mL	40.6075 mL
		5 mM	0.8121 mL	4.0607 mL	8.1215 mL
		10 mM	0.4061 mL	2.0304 mL	4.0607 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 (10.15 mM); Clear solution				
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (10.15 mM); Clear solution				
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (10.15 mM); Clear solution				

BIOLOGICAL ACTIVITY

Description	(+)-Columbianetin is an isomer of Columbianetin. Columbianetin is a phytoalexin associated with celery (<i>Apium graveolens</i>) resistance to pathogens during storage. Columbianetin exhibits excellent anti-fungal and anti-inflammatory activity ^{[1][2]} .
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REFERENCES

[1]. UziAfeq, et al. Columbianetin, a phytoalexin associated with celery resistance to pathogens during storage. 1995. Volume 39, Issue 6, August 1995, Pages 1347-1350.

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

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