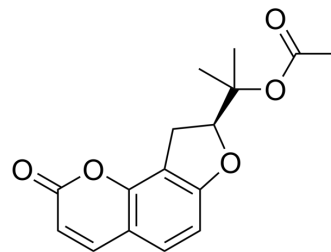


(+)-Columbianetin acetate

Cat. No.:	HY-N0363A
CAS No.:	23180-65-6
Molecular Formula:	C ₁₆ H ₁₆ O ₅
Molecular Weight:	288.3
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 : 66.67 mg/mL (231.25 mM; ultrasonic and warming and heat to 60°C)				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
	Preparing Stock Solutions	1 mM	3.4686 mL	17.3430 mL	34.6861 mL
		5 mM	0.6937 mL	3.4686 mL	6.9372 mL
		10 mM	0.3469 mL	1.7343 mL	3.4686 mL
Please refer to the solubility information to select the appropriate solvent.					
In Vivo	1. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (8.67 mM); Clear solution 2. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (8.67 mM); Clear solution				

BIOLOGICAL ACTIVITY

Description	(S)-Columbianetin acetate 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]. UziAfek, et al. Columbianetin, a phytoalexin associated with celery resistance to pathogens during storage. 1995. Volume 39, Issue 6, August 1995, Pages 1347-1350.
- [2]. Jeong HJ, et al. Anti-inflammatory effect of Columbianetin on activated human mast cells. Biol Pharm Bull. 2009 Jun;32(6):1027-31.

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA