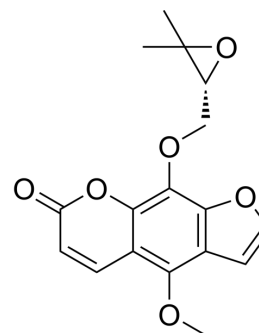


Byakangelicol

Cat. No.:	HY-N0074
CAS No.:	26091-79-2
Molecular Formula:	C ₁₇ H ₁₆ O ₆
Molecular Weight:	316.31
Target:	COX
Pathway:	Immunology/Inflammation
Storage:	4°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



SOLVENT & SOLUBILITY

In Vitro	DMSO : 50 mg/mL (158.07 mM; Need ultrasonic)						
	Preparing Stock Solutions	Solvent Concentration	Mass	1 mg	5 mg	10 mg	
				1 mM	3.1615 mL	15.8073 mL	31.6146 mL
				5 mM	0.6323 mL	3.1615 mL	6.3229 mL
				10 mM	0.3161 mL	1.5807 mL	3.1615 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 (7.90 mM); Clear solution						
	2. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (7.90 mM); Clear solution						

BIOLOGICAL ACTIVITY

Description	Byakangelicol, isolated from <i>Angelica dahurica</i> , inhibits interleukin-1beta (IL-1beta) -induced prostaglandin E2 (PGE2) release in A549 cells mediated by suppression of cyclooxygenase-2 (COX-2) expression and the activity of COX-2 enzyme. Byakangelicol has therapeutic potential as an anti-inflammatory agent on airway inflammation ^[1] .
IC ₅₀ & Target	COX-2

CUSTOMER VALIDATION

- Regen Biomater. 2023 Oct 25.

See more customer validations on www.MedChemExpress.com

REFERENCES

[1]. Lin CH, et al. Byakangelicol, isolated from *Angelica dahurica*, inhibits both the activity and induction of cyclooxygenase-2 in human pulmonary epithelial cells. *J Pharm Pharmacol*. 2002 Sep;54(9):1271-8.

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