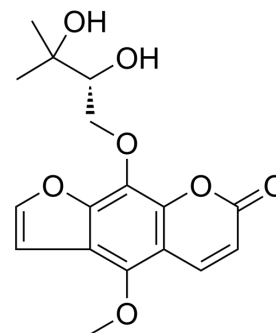


## Byakangelicin

Cat. No.:	HY-N6022
CAS No.:	482-25-7
Molecular Formula:	C <sub>17</sub> H <sub>18</sub> O <sub>7</sub>
Molecular Weight:	334.32
Target:	Others
Pathway:	Others
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 (149.56 mM; Need ultrasonic)					
		Solvent Concentration	Mass	1 mg	5 mg	10 mg
	Preparing Stock Solutions	1 mM	2.9911 mL	14.9557 mL	29.9115 mL	
		5 mM	0.5982 mL	2.9911 mL	5.9823 mL	
		10 mM	0.2991 mL	1.4956 mL	2.9911 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 (7.48 mM); Clear solution  2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: 2.5 mg/mL (7.48 mM); Suspended solution; Need ultrasonic					

### BIOLOGICAL ACTIVITY

Description	Byakangelicin, one of the active compounds found in the roots of <i>Angelica gigas</i> , can serve as a modulator to improve brain accumulation of diverse active compounds (Umb, Cur, and Dox) and enhance therapeutic effects <sup>[1]</sup> . Byakangelicin is likely to increase the expression of all PXR target genes (such as MDR1) and induce a wide range of agent-agent interactions. Byakangelicin can inhibit the effects of sex hormones, it may increase the catabolism of endogenous hormones <sup>[2]</sup> .
IC <sub>50</sub> & Target	PXR <sup>[2]</sup>

### REFERENCES

[1]. Kang YY, et al. Byakangelicin as a modulator for improved distribution and bioactivity of natural compounds and synthetic drugs in the brain. *Phytomedicine*. 2019 May

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17;62:152963.

[2]. Yang J, et al. Byakangelicin induces cytochrome P450 3A4 expression via transactivation of pregnane X receptors in human hepatocytes. Br J Pharmacol. 2011 Jan;162(2):441-51.

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

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