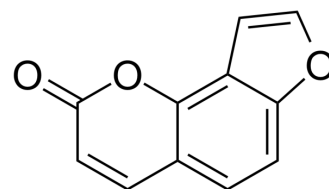


## Angelicin

<b>Cat. No.:</b>	HY-N0763		
<b>CAS No.:</b>	523-50-2		
<b>Molecular Formula:</b>	C <sub>11</sub> H <sub>6</sub> O <sub>3</sub>		
<b>Molecular Weight:</b>	186.16		
<b>Target:</b>	Apoptosis; Virus Protease		
<b>Pathway:</b>	Apoptosis; Anti-infection		
<b>Storage:</b>	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



### SOLVENT & SOLUBILITY

<b>In Vitro</b>	DMSO : 33.33 mg/mL (179.04 mM; Need ultrasonic)				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
	<b>Preparing Stock Solutions</b>	1 mM	5.3717 mL	26.8586 mL	53.7172 mL
		5 mM	1.0743 mL	5.3717 mL	10.7434 mL
10 mM		0.5372 mL	2.6859 mL	5.3717 mL	
Please refer to the solubility information to select the appropriate solvent.					
<b>In Vivo</b>	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.5 mg/mL (13.43 mM); Clear solution  2. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (13.43 mM); Clear solution				

### BIOLOGICAL ACTIVITY

<b>Description</b>	<p>Angelicin, a furocoumarin naturally occurring tricyclic aromatic compound, structurally related to psoralens, is reported to have anti-cancer, antiviral, anti-inflammatory activity. IC<sub>50</sub> value: 49.56 μM (cellular cytotoxicity); 5.39 μg/ml (28.95 μM) (against MHV-68) Target: In vitro: In human SH-SY5Y neuroblastoma cells, angelicin increased cellular cytotoxicity in a dose- and time-dependent manner with IC<sub>50</sub> of 49.56 μM at 48 h of incubation. Angelicin dose-dependently downregulated the expression of anti-apoptotic proteins including Bcl-2, Bcl-xL, and Mcl-1; Angelicin-induced apoptosis is mediated primarily through the intrinsic caspase-mediated pathway[1]. Angelicin efficiently inhibited 12-O-tetradecanoylphorbol-13-acetate (TPA)-induced lytic replication of human gammaherpesviruses in both EBV- and KSHV-infected cells [2]. Angelicin was potentially advantageous to prevent inflammatory diseases by inhibiting NF-κB and MAPK pathways [3]. In vivo:</p>
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## CUSTOMER VALIDATION

- Front Pharmacol. 2021 Jun 9;12:669213.
- Arthritis Res Ther. 2021 Sep 17;23(1):243.

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## REFERENCES

- [1]. Md. Ataur Rahman, Angelicin induces apoptosis through intrinsic caspase-dependent pathway in human SH-SY5Y neuroblastoma cells. Molecular and Cellular Biochemistry October 2012, Volume 369, Issue 1-2, pp 95-104
- [2]. Hye-Jeong Cho, et al. Antiviral activity of angelicin against gammaherpesviruses. Antiviral Research Volume 100, Issue 1, October 2013, Pages 75-83
- [3]. Fang Liu, et al. Angelicin regulates LPS-induced inflammation via inhibiting MAPK/NF- $\kappa$ B pathways. Journal of Surgical Research Volume 185, Issue 1, November 2013, Pages 300-309
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**Caution: Product has not been fully validated for medical applications. For research use only.**

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