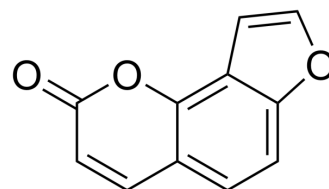


Angelicin

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



SOLVENT & SOLUBILITY

In Vitro	DMSO : 33.33 mg/mL (179.04 mM; Need ultrasonic)				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
	Preparing Stock Solutions	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.					
In Vivo	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

Description	<p>Angelicin, a furocoumarin naturally occurring tricyclic aromatic compound, structurally related to psoralens, is reported to have anti-cancer, antiviral, anti-inflammatory activity. IC₅₀ 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 IC₅₀ 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

- Biomed Pharmacother. 2023 Mar 16;161:114462.
- Front Pharmacol. 2021 Jun 9;12:669213.
- J Ethnopharmacol. 2022 Aug 13;115593.
- Arthritis Res Ther. 2021 Sep 17;23(1):243.
- Metabolites. 2023, 13(1), 3.

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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-κB 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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