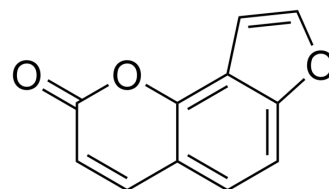


Angelicin

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)

Preparing Stock Solutions	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
	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

- 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
- Add each solvent one by one: 10% DMSO >> 90% corn oil
Solubility: ≥ 2.5 mg/mL (13.43 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Angelicin is a natural tricyclic aromatic hydrocarbon compound that is structurally related to psoralen and has anti-cancer, anti-inflammatory, anti-viral and other activities. Cytotoxic, IC₅₀: 49.56 μM; inhibits MHV-68, IC₅₀: 5.39 μg/ml (28.95 μM).

CUSTOMER VALIDATION

- Biomed Pharmacother. 2023 Mar 16;161:114462.
- Front Pharmacol. 2021 Jun 9;12:669213.

- J Ethnopharmacol. 2022 Aug 13;115593.
- Chem Biol Interact. 2024 Jul 3:111133.
- 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-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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