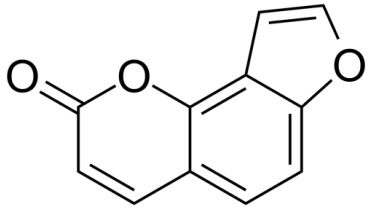
Data Sheet

Product Name:	Angelicin
Cat. No.:	CS-3754
CAS No.:	523-50-2
Molecular Formula:	C11H6O3
Molecular Weight:	186.16
Target:	Apoptosis; Virus Protease
Pathway:	Anti-infection; Apoptosis
Solubility:	H2O : < 0.1 mg/mL (insoluble); DMSO : 33.33 mg/mL (179.04 mM; Need ultrasonic)



BIOLOGICAL ACTIVITY:

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 gammaherpresviruses 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:

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

CAIndexNames:

2H-Furo[2,3-h]-1-benzopyran-2-one

SMILES:

O=C1C=CC2=CC=C(OC=C3)C3=C2O1

Tel: 732-484-9848 Fax: 888-484-5008 E-mail: sales@ChemScene.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA