

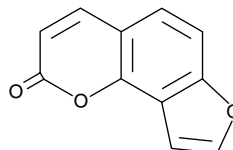
Product Information



Angelicin

Item No. 11683

CAS Registry No.: 523-50-2
Formal Name: 2H-furo[2,3-h]-1-benzopyran-2-one
Synonyms: Bakuchicin, NSC 404563
MF: C₁₁H₆O₃
FW: 186.2
Purity: ≥98%
Stability: ≥2 years at -20°C
Supplied as: A crystalline solid
UV/Vis.: λ_{max}: 247, 299 nm



Laboratory Procedures

For long term storage, we suggest that angelicin be stored as supplied at -20°C. It should be stable for at least two years. Angelicin is supplied as a crystalline solid. A stock solution may be made by dissolving the angelicin in the solvent of choice. Angelicin is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide, which should be purged with an inert gas. The solubility of angelicin in these solvents is approximately 1, 5, and 2 mg/ml, respectively.

Angelicin is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, angelicin should first be dissolved in DMSO and then diluted with the aqueous buffer of choice. Angelicin has a solubility of approximately 0.5 mg/ml in a 1:1 solution of DMSO:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

Angelicin is a furanocoumarin typically isolated from the seeds of *P. corylifolia*. Like other furanocoumarins, angelicin has antibacterial activities against a number of Gram (+) and Gram (-) bacteria.¹ It has also been shown to prevent tacrine-induced cytotoxicity in human liver-derived HepG2 cells (EC₅₀ = 47 µg/ml) and vascular relaxation in phenylephrine-precontracted rat aorta.^{2,3} Angelicin also weakly inhibits topoisomerase II (IC₅₀ = 404 µM).⁴

References

1. Khatune, N.A., Islam, M.E., Haque, M.E., *et al.* Antibacterial compounds from the seeds of *Psoralea corylifolia*. *Fitoterapia* **75**, 228-230 (2004).
2. Cho, H., Jun, J.Y., Song, E.K., *et al.* Bakuchiol: A hepatoprotective compound of *Psoralea corylifolia* on tacrine-induced cytotoxicity in Hep G2 cells. *Planta Med.* **67**, 750-751 (2001).
3. Li, X., Lee, Y.J., Kim, Y.C., *et al.* Bakuchicin induces vascular relaxation *via* endothelium-dependent NO-cGMP signaling. *Phytother. Res.* **25**, 1574-1578 (2011).
4. Sun, N.J., Woo, S.H., Cassady, J.M., *et al.* DNA polymerase and topoisomerase II inhibitors from *Psoralea corylifolia*. *J. Nat. Prod.* **61**, 362-366 (1998).

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