
Product Data Sheet

Product Name: Oxypeucedanin hydrate

Cat. No.: GC39030

Chemical Properties

Cas. No. 2643-85-8

SMILES CC(C)(O)[C@H](O)COC1=C(C=CO2)C2=CC(O3)=C1C=CC3=OFormula $C_{16}H_{16}O_6$ M.Wt 304.29Solubility Soluble in DMSO Storage Store at $-20^{\circ}C$

General tips For obtaining a higher solubility , please warm the tube at $37^{\circ}C$ and shake it in the ultrasonic bath for a while. Stock solution can be stored below $-20^{\circ}C$ for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

Structure **Background**

(+)-Oxypeucedanin hydrate is a furanocoumarin that has been found in *A. japonica* and has diverse biological activities.^{1,2,3} It is active against the Gram-positive bacteria *B. cereus*, *S. aureus*, and *S. faecalis* (MICs = 9.76-78.12 μ g/ml), the Gram-negative bacteria *E. coli*, *S. dysenteriae*, *P. aeruginosa*, *K. pneumoniae*, and *S. typhi* (MICs = 39.06-625 μ g/ml), and the fungi *C. albicans* and *M. audouinii* (MIC = 39.06 μ g/ml for both).² (+)-Oxypeucedanin hydrate inhibits proliferation of human MK-1 gastric and HeLa cervical cancer cells, as well as murine B16/F10 melanoma cells (EC₅₀s = 47.2, 80.3, and 42 μ g/ml, respectively).¹ It also inhibits proliferation of sensitive and multidrug-resistant murine L5178Y lymphoma cells (IC₅₀s = 41.96 and 60.58 μ M, respectively).³

1. Fujioka, T., Furumi, K., Fuhii, H., et al. Antiproliferative constituents from Umbelliferae plants. V. A new furanocoumarin and falcariindiol furanocoumarin ethers from the root of *Angelica japonica* Chem. Pharm. Bull. (Tokyo) 47(1)96-100(1999) 2. Dongfack, M.D.J., Lallemand, M.-C., Kuete, V., et al. A new sphingolipid and furanocoumarins with antimicrobial activity from *Ficus exasperata* Chem. Pharm. Bull. (Tokyo) 60(8)1072-

Caution: Product has not been fully validated for medical applications. For research use only.

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1075(2012) 3.Mottaghipisheh, J., Nové, M., Spengler, G., et al. Antiproliferative and cytotoxic activities of furocoumarins of *Ducrosia anethifolia* Pharm. Biol. 56(1)658-664(2018)

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