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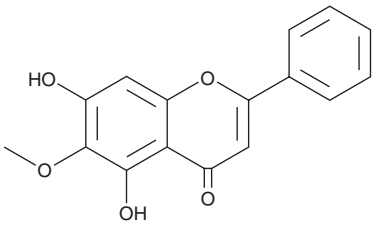
PRODUCT INFORMATION

Oroxylin A

Item No. 27363

CAS Registry No.: 480-11-5
Formal Name: 5,7-dihydroxy-6-methoxy-2-phenyl-4H-1-benzopyran-4-one
Synonym: 6-Methoxybaicalein
MF: $C_{16}H_{12}O_5$
FW: 284.3
Purity: ≥98%
UV/Vis.: λ_{max}: 215, 273, 321 nm
Supplied as: A solid
Storage: -20°C
Stability: ≥2 years
Item Origin: Plant/*Oroxylum indicum*



Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

Oroxylin A is supplied as a solid. A stock solution may be made by dissolving the oroxylin A in the solvent of choice, which should be purged with an inert gas. Oroxylin A is soluble in organic solvents such as DMSO and dimethyl formamide. The solubility of oroxylin A in these solvents is approximately 30 mg/ml.

Oroxylin A is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, oroxylin A should first be dissolved in DMSO and then diluted with the aqueous buffer of choice. Oroxylin A has a solubility of approximately 0.20 mg/ml in a 1:4 solution of DMSO:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

Description

Oroxylin A is a flavonoid that has been found in *S. radix* and has diverse biological activities.[1-3] It inhibits decreases in cell viability and increases in nitric oxide (NO) production induced by polyinosinic-polycytidylic acid (poly(I:C)) in RAW 264.7 macrophages when used at concentrations ranging from 5 to 25 µM.[2] Oroxylin A (10-50 µM) also inhibits poly(I:C)-induced increases in IL-1α, IL-1β, GM-CSF, IL-6, IL-10, monocyte chemoattractant protein-1 (MCP-1), and TNF-α production in RAW 264.7 cells. Oroxylin A (10 and 20 µM) inhibits hypoxia-induced migration and invasion of MCF-7, DU145, and HepG2 cells in wound healing and cell invasion assays, respectively.[3] It is an inhibitor of the UDP-glucuronosyltransferase (UGT) isoform UGT1A1 (IC_{50} = 9.14 µM) and P-glycoprotein (IC_{50} = 78.3 µM).[4,5] Oroxylin A increases the cytotoxicity of the P-glycoprotein substrate paraquat in MDR1-MDCKII cells and paclitaxel (Item No. 10461) in MX-1 and MX-1/T cells.[5]

References

1. Lu, L., Guo, Q., and Zhao, L. *Phytother. Res.* **30(11),** 1765-1774 (2016).
2. Lee, J.Y. and Park, W. *Exp. Ther. Med.* **12(1),** 151-156 (2016).
3. Cheng, Y., Zhao, K., Li, G., *et al. Anticancer Drugs* **25(7),** 778-789 (2014).
4. Liu, X.Y., Lv, X., Wang, P., *et al. Int. J. Biol. Macromol.* **126**, 653-661 (2019).
5. Bai, J., Zhao, S., Fan, X., *et al. Toxicol. Appl. Pharmacol.* **369**, 49-59 (2019).

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