

Oroxylin A

Chemical Properties

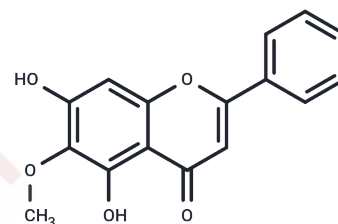
CAS No. : 480-11-5

Formula: C₁₆H₁₂O₅

Molecular Weight: 284.26

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



Biological Description

Description	1. Oroxylin A (Baicalein 6-methyl ether) has various anti-tumor effects including apoptosis, cell cycle arrest, drug-resistant reversion. 2. Oroxylin A possesses abilities of inhibiting the ATRA-induced IL-6 production via modulation of LAP/LIP/CHOP in leukemia cell lines, which could providing a therapeutic strategy for RAS. 3. Oroxylin A inhibits UCP2s triggers the MPTP opening, and promotes the apoptosis in CaCo-2 cells; uncoupling protein 2 plays a key role in mitochondrial apoptotic pathway. 4. Oroxylin A inhibits N1ICD translocating to the nucleus and binding to epithelial-mesenchymal transition-related transcription factor Snail, thus suppressing the invasion and migration of MCF-7 cells. 5. Oroxylin A improves the sensitivity of K562/ADM cells by increasing apoptosis in leukemic cells and decreasing the expression of CXCR4 and PI3K/Akt/NF-κB pathway, and probably served as a most promising agent for CML treatment.
Targets(IC50)	HIF/HIF Prolyl-Hydroxylase, Autophagy, Virus Protease

Solubility Information

Solubility	DMSO: 122.5 mg/mL (430.94 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.5179 mL	17.5895 mL	35.1791 mL
5 mM	0.7036 mL	3.5179 mL	7.0358 mL
10 mM	0.3518 mL	1.759 mL	3.5179 mL
50 mM	0.0704 mL	0.3518 mL	0.7036 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

- Ku S K , Lee I C , Bae J S . Antithrombotic activities of oroxylin A in vitro and in vivo[J]. Archives of Pharmacal Research, 2013, 37(5):679-86.
- Kuang Y, Chai Y, Xu L, et al. Glabrone as a specific UGT1A9 probe substrate and its application in discovering the inhibitor glycycomarin. European Journal of Pharmaceutical Sciences. 2021: 105786.
- Ni Z, Ma H, Li X, et al. Wogonin alleviates BaP-induced DNA damage and oxidative stress in human airway epithelial cells by dual inhibiting CYP1A1 activity and expression. Environmental Toxicology. 2023
- Kuang Y, Chai Y, Xu L, et al. Glabrone as a specific UGT1A9 probe substrate and its application in discovering the inhibitor glycycomarin[J]. European Journal of Pharmaceutical Sciences. 2021: 105786.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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