Licochalcone A

Cat. No.: HY-N0372

CAS No.: 58749-22-7

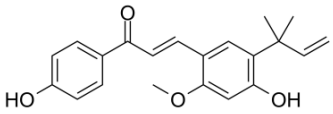
Molecular Formula: $C_{21}H_{22}O_4$

Molecular Weight: 338.4

Target: Autophagy

Pathway: Autophagy

Storage: Powder -20°C 3 years
4°C 2 years
* The compound is unstable in solutions, freshly prepared is recommended.



SOLVENT & SOLUBILITY

In Vitro

DMSO : ≥ 31 mg/mL (91.61 mM)
H_2O : < 0.1 mg/mL (insoluble)
* "≥" means soluble, but saturation unknown.

Preparing Stock Solutions

Solvent / Mass / Concentration	1 mg	5 mg	10 mg
1 mM	2.9551 mL	14.7754 mL	29.5508 mL
5 mM	0.5910 mL	2.9551 mL	5.9102 mL
10 mM	0.2955 mL	1.4775 mL	2.9551 mL

Please refer to the solubility information to select the appropriate solvent.

In Vivo

1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
   Solubility: 2.08 mg/mL (6.15 mM); Suspended solution; Need ultrasonic
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: 2.08 mg/mL (6.15 mM); Suspended solution; Need ultrasonic
3. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.5 mg/mL (7.39 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Licochalcone A, a flavonoid isolated from the famous Chinese medicinal herb Glycyrrhiza uralensis Fisch, presents obvious anti-cancer effects. The IC50 value is 0.97 μM for UGT1A1.

CUSTOMER VALIDATION

- Acta Pharm Sin B. 2021 Jan;11(1):143-155.
- Oncotargets Ther. 2021 Jan 8;13:13437-13450.

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REFERENCES

[1]. Tang ZH, et al. Induction of C/EBP homologous protein-mediated apoptosis and autophagy by licochalcone A in non-small cell lung cancer cells. Sci Rep. 2016 May 17;6:26241.

[2]. Hong Xin, et al. Assessment of the inhibition potential of Licochalcone A against human UDP-glucuronosyltransferases. Food and Chemical ToxicologyVolume 90, April 2016, Pages 112–122

[3]. Egler J, et al. Licochalcone A Induced Suicidal Death of Human Erythrocytes. Cell Physiol Biochem. 2015;37(5):2060-70.

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