Licoflavone A

Cat. No.: HY-N4185

CAS No.: 61153-77-3

Molecular Formula: $C_{20}H_{18}O_4$

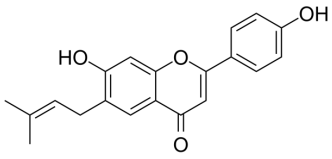
Molecular Weight: 322

Target: Phosphatase

Pathway: Metabolic Enzyme/Protease

Storage: 4°C, protect from light

* In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 100 mg/mL (310.56 mM; Need ultrasonic)

H_2O : < 0.1 mg/mL (insoluble)

Preparing Stock Solutions

Solvent / Mass / Concentration	1 mg	5 mg	10 mg
1 mM	3.1056 mL	15.5280 mL	31.0559 mL
5 mM	0.6211 mL	3.1056 mL	6.2112 mL
10 mM	0.3106 mL	1.5528 mL	3.1056 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: ≥ 2.5 mg/mL (7.76 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.5 mg/mL (7.76 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Licoflavone A is a flavonoid isolated from the roots of Glycyrrhiza uralensis, inhibits protein tyrosine phosphatase-1B (PTP1B), with an IC_{50} of 54.5 μM[1].

IC_{50} & Target

IC50: 54.5 μM (PTP1B)[1]

CUSTOMER VALIDATION

- Genomics. 2021 Jun 7;S0888-7543(21)00220-2.

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REFERENCES

[1]. Li S, et al. Prenylflavonoids from Glycyrrhiza uralensis and their protein tyrosine phosphatase-1B inhibitory activities. Bioorg Med Chem Lett. 2010 Sep 15;20(18):5398-401.

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

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