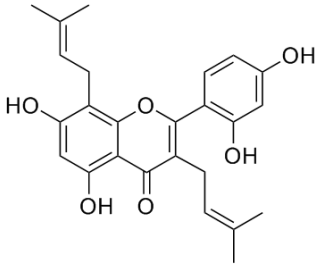
# Mulberrin

| | |
|---|---|
| **Cat. No.:** | HY-N3513 |
| **CAS No.:** | 62949-79-5 |
| **Molecular Formula:** | $C_{25}H_{26}O_6$ |
| **Molecular Weight:** | 422.47 |
| **Target:** | Others |
| **Pathway:** | Others |

**Storage:**

| | | |
|---|---|---|
| Powder | -20°C | 3 years |
| | 4°C | 2 years |
| In solvent | -80°C | 6 months |
| | -20°C | 1 month |




## SOLVENT & SOLUBILITY

**In Vitro**

DMSO : 100 mg/mL (236.70 mM; Need ultrasonic)

| Preparing Stock Solutions | Solvent / Mass / Concentration | 1 mg | 5 mg | 10 mg |
|---|---|---|---|---|
| | 1 mM | 2.3670 mL | 11.8352 mL | 23.6703 mL |
| | 5 mM | 0.4734 mL | 2.3670 mL | 4.7341 mL |
| | 10 mM | 0.2367 mL | 1.1835 mL | 2.3670 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 (5.92 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 2.5 mg/mL (5.92 mM); Suspended solution
3. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.5 mg/mL (5.92 mM); Clear solution

## BIOLOGICAL ACTIVITY

**Description**

Mulberrin is a strong inhibitor of organic anion-transporting polypeptide 2B1 (OATP2B1)-mediated estrone-3-sulfate (E3S) uptake with an $IC_{50}$ value being 1.8 ±1.5 μM.

**In Vitro**

Mulberrin is a flavone with two isopentenyl groups at positions 3 and 8. Mulberrin is a strong inhibitor of OATP2B1 with more than 80% inhibition.Mulberrin also inhibits organic anion-transporting polypeptide (OATP)-mediated uptake of Atorvastatin, Fluvastatin, and Rosuvastatin[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

## CUSTOMER VALIDATION

- J Chem Neuroanat. 2019 Apr 9. pii: S0891-0618(19)30007-9.

See more customer validations on www.MedChemExpress.com

## REFERENCES

[1]. Wen F, et al. Identification of natural products as modulators of OATP2B1 using LC-MS/MS to quantify OATP-mediated uptake. Pharm Biol. 2016;54(2):293-302.



Tel: 609-228-6898 Fax: 609-228-5909 E-mail: tech@MedChemExpress.com
Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA