# 1,4-Dicaffeoylquinic acid

**Cat. No.:** HY-N0358

**CAS No.:** 1182-34-9

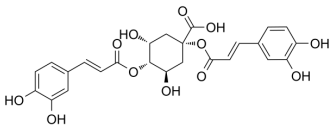
**Molecular Formula:** $C_{25}H_{24}O_{12}$

**Molecular Weight:** 516.45

**Target:** TNF Receptor; Interleukin Related

**Pathway:** Apoptosis; Immunology/Inflammation

**Storage:** 4°C, sealed storage, away from moisture and light
* In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light)



## SOLVENT & SOLUBILITY

**In Vitro**

DMSO : 100 mg/mL (193.63 mM; Need ultrasonic)

| Preparing Stock Solutions | Solvent / Mass / Concentration | 1 mg | 5 mg | 10 mg |
|---|---|---|---|---|
| | 1 mM | 1.9363 mL | 9.6815 mL | 19.3630 mL |
| | 5 mM | 0.3873 mL | 1.9363 mL | 3.8726 mL |
| | 10 mM | 0.1936 mL | 0.9681 mL | 1.9363 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 (4.84 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: 2.5 mg/mL (4.84 mM); Suspended solution; Need ultrasonic
3. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.5 mg/mL (4.84 mM); Clear solution

## BIOLOGICAL ACTIVITY

**Description**

1,4-Dicaffeoylquinic acid (1,4-DCQA) is a phenylpropanoid from Xanthii fructus, inhibits LPS-stimulated TNF-α production[1].

## CUSTOMER VALIDATION

- J Agric Food Chem. 2021 Aug 18;69(32):9270-9286.

See more customer validations on www.MedChemExpress.com

## REFERENCES

[1]. Yoo SR, et al. Phytochemical Analysis on Quantification and the Inhibitory Effects on Inflammatory Responses from the Fruit of Xanthii fructus. Pharmacogn Mag. 2015 Oct;11(Suppl 4):S585-91.



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