(E)-Ethyl p-methoxycinnamate

Cat. No.: HY-N0346A

CAS No.: 24393-56-4

Molecular Formula: $C_{12}H_{14}O_3$

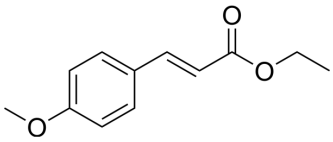
Molecular Weight: 206.24

Target: COX

Pathway: Immunology/Inflammation

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 (484.87 mM; Need ultrasonic)

Preparing Stock Solutions

Solvent / Mass / Concentration	1 mg	5 mg	10 mg
1 mM	4.8487 mL	24.2436 mL	48.4872 mL
5 mM	0.9697 mL	4.8487 mL	9.6974 mL
10 mM	0.4849 mL	2.4244 mL	4.8487 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 (12.12 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: 2.5 mg/mL (12.12 mM); Suspended solution; Need ultrasonic
3. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.5 mg/mL (12.12 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

(E)-Ethyl p-methoxycinnamate is a natural product found in Kaempferia galangal with anti-inflammatory, anti-neoplastic and anti-microbial effects. (E)-Ethyl p-methoxycinnamate inhibits COX-1 and COX-2 in vitro with IC_{50}s of 1.12 and 0.83 μM, respectively[1].

IC_{50} & Target

COX-1	COX-2
1.12 μM (IC_{50})	0.83 μM (IC_{50})

REFERENCES

[1]. Umar MI, et al. Bioactivity-guided isolation of ethyl-p-methoxycinnamate, an anti-inflammatory constituent, from Kaempferia galangal L. extracts. Molecules. 2012 Jul 23;17(7):8720-34.

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