Cinnamyl Alcohol

Cat. No.: HY-Y0078

CAS No.: 104-54-1

Molecular Formula: $C_9H_{10}O$

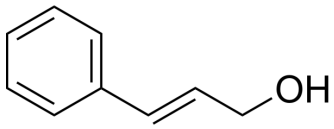
Molecular Weight: 134.18

Target: PPAR

Pathway: Cell Cycle/DNA Damage; Vitamin D Related/Nuclear Receptor

Storage:

Pure form	-20°C	3 years
	4°C	2 years
In solvent	-80°C	6 months
	-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 250 mg/mL (1863.17 mM; Need ultrasonic)

H_2O : 100 mg/mL (745.27 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	7.4527 mL	37.2634 mL	74.5268 mL
	5 mM	1.4905 mL	7.4527 mL	14.9054 mL
	10 mM	0.7453 mL	3.7263 mL	7.4527 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: ≥ 6.25 mg/mL (46.58 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 6.25 mg/mL (46.58 mM); Clear solution
3. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 6.25 mg/mL (46.58 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Cinnamyl Alcohol is an active component from chestnut flower, inhibits increased PPARγ expression, with anti-obesity activity[1].

CUSTOMER VALIDATION

- bioRxiv. 2023 Jun 3.

See more customer validations on www.MedChemExpress.com

REFERENCES

[1]. Hwang DI, et al. Cinnamyl Alcohol, the Bioactive Component of Chestnut Flower Absolute, Inhibits Adipocyte Differentiation in 3T3-L1 Cells by Downregulating Adipogenic Transcription Factors. Am J Chin Med. 2017;45(4):833-846.

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