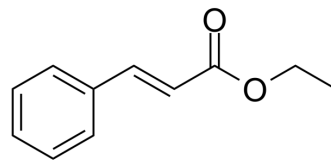


Ethyl cinnamate

Cat. No.:	HY-Y0121		
CAS No.:	103-36-6		
Molecular Formula:	C ₁₁ H ₁₂ O ₂		
Molecular Weight:	176.21		
Target:	Others		
Pathway:	Others		
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 : 100 mg/mL (567.50 mM; Need ultrasonic)
 H₂O : 100 mg/mL (567.50 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
	1 mM	5.6750 mL	28.3752 mL	56.7505 mL
	5 mM	1.1350 mL	5.6750 mL	11.3501 mL
	10 mM	0.5675 mL	2.8375 mL	5.6750 mL

Please refer to the solubility information to select the appropriate solvent.

In Vivo

- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
 Solubility: ≥ 2.5 mg/mL (14.19 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
 Solubility: ≥ 2.5 mg/mL (14.19 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil
 Solubility: ≥ 2.5 mg/mL (14.19 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Ethyl cinnamate is a fragrance ingredient used in many fragrance compounds. Ethyl cinnamate is a food flavor and additive for cosmetic products. Ethyl cinnamate is also an excellent clearing reagent for mammalian tissues^{[1][2]}.

REFERENCES

[1]. S P Bhatia, et al. Fragrance material review on ethyl cinnamate. Food Chem Toxicol. 2007;45 Suppl 1:S90-4.

[2]. Anika Klingberg, et al. Fully Automated Evaluation of Total Glomerular Number and Capillary Tuft Size in Nephritic Kidneys Using Lightsheet Microscopy. J Am Soc Nephrol. 2017 Feb;28(2):452-459.

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

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