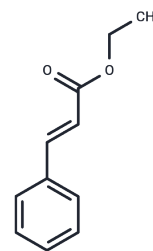


## (E)-Ethyl cinnamate

## Chemical Properties

CAS No. :	4192-77-2
Formula:	C <sub>11</sub> H <sub>12</sub> O <sub>2</sub>
Molecular Weight:	176.21
Storage:	Powder: -20°C for 3 years   In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



## Biological Description

Description	(E)-Ethyl cinnamate is a volatile substance isolated from Spondias mombin Linn., used in various industries.
Targets(IC50)	Others
In vitro	(E)-Ethyl cinnamate inhibited high K and deoxyadrenaline (PE) -induced tetanic contraction in a concentration-dependent manner with IC50 values of 0.30 mM and 0.38 mM, respectively. (E)-Ethyl cinnamate (0-80 μM) significantly inhibited the colony-forming ability of colon cancer cells HT29 and SW480 in a concentration-dependent manner.
In vivo	(E)-Ethyl cinnamate (15mg/kg/d, 30mg/kg/d, 60 mg/kg/d) inhibited tumor growth and angiogenesis in HT29 nude mouse colonic cancer xenograft model, and hepatotoxicity and nephrotoxicity were not detected. [3]

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	5.675 mL	28.3752 mL	56.7505 mL
5 mM	1.135 mL	5.675 mL	11.3501 mL
10 mM	0.5675 mL	2.8375 mL	5.675 mL
50 mM	0.1135 mL	0.5675 mL	1.135 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

### Reference

Mallavarapu GR, et al. Influence of plant growth stage on the essential oil content and composition in Davana (*Artemisia pallens* wall.). *J Agric Food Chem*. 1999 Jan;47(1):254-8.

Othman R, et al. Vasorelaxant effects of ethyl cinnamate isolated from *Kaempferia galanga* on smooth muscles of the rat aorta. *Planta Med*. 2002 Jul;68(7):655-7.

Wang S, et al. Ethyl cinnamate suppresses tumor growth through anti-angiogenesis by attenuating VEGFR2 signal pathway in colorectal cancer. *J Ethnopharmacol*. 2024 May 23;326:117913.

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