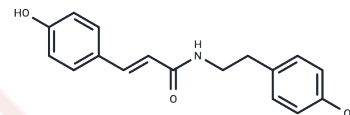


## N-p-trans-Coumaroyltyramine

## Chemical Properties

CAS No. :	36417-86-4
Formula:	C17H17NO3
Molecular Weight:	283.33
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	N-p-trans-Coumaroyltyramine is a natural product and an acetylcholinesterase (AChE) inhibitor with an IC50 of 122 $\mu$ M. It also exhibits anti-trypanosomal activity with an IC50 of 13.3 $\mu$ M for <i>T. brucei rhodesiense</i> .
Targets(IC50)	Parasite,Cholinesterase (ChE),glycosidase
In vitro	The methanolic extract of the twigs of <i>Celtis chinensis</i> was found to show inhibitory activity on acetylcholinesterase (AChE), an enzyme that plays a role in the metabolic hydrolysis of ACh. Bioassay-guided fractionation of the methanolic extract resulted in the isolation of N-p-trans-Coumaroyltyramine, as an inhibitor on AChE[1]

## Solubility Information

Solubility	Propylene glycol: 14.7 mg/mL (51.88 mM),Sonication is recommended. DMSO: 145 mg/mL (511.77 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 10 mg/mL (35.29 mM),Solution. 10% DMSO+90% Saline: < 10 mg/mL (35.29 mM),Lower concentrations may be soluble, but exact solubility limit is unknown. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

### Preparing Stock Solutions

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	<b>1mg</b>	<b>5mg</b>	<b>10mg</b>
1 mM	3.5295 mL	17.6473 mL	35.2945 mL
5 mM	0.7059 mL	3.5295 mL	7.0589 mL
10 mM	0.3529 mL	1.7647 mL	3.5295 mL
50 mM	0.0706 mL	0.3529 mL	0.7059 mL

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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

Inhibitory effect of trans-N-p-coumaroyl tryamine from the twigs of *Celtis chinensis* on the acetylcholinesterase. *Arch. Pharm. Res.*,2003, 26(9):735-8.

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