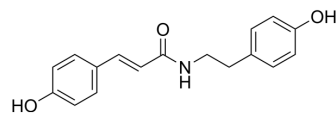


## N-p-trans-Coumaroyltyramine

<b>Cat. No.:</b>	HY-N2230
<b>CAS No.:</b>	36417-86-4
<b>Molecular Formula:</b>	C <sub>17</sub> H <sub>17</sub> NO <sub>3</sub>
<b>Molecular Weight:</b>	283.33
<b>Target:</b>	Cholinesterase (ChE); Parasite
<b>Pathway:</b>	Neuronal Signaling; Anti-infection
<b>Storage:</b>	4°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



### SOLVENT & SOLUBILITY

<b>In Vitro</b>	DMSO : 100 mg/mL (352.95 mM; Need ultrasonic)				
		Solvent Concentration	Mass		
	<b>Preparing Stock Solutions</b>		1 mg	5 mg	10 mg
		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	
Please refer to the solubility information to select the appropriate solvent.					
<b>In Vivo</b>	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.5 mg/mL (8.82 mM); Clear solution				
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (8.82 mM); Clear solution				
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (8.82 mM); Clear solution				

### BIOLOGICAL ACTIVITY

<b>Description</b>	N-p-trans-Coumaroyltyramine is a cinnamoylphenethyl amide isolated from polygonum hyrcanicum, acts as an acetylcholinesterase (AChE) inhibitor with an IC <sub>50</sub> of 122 μM. N-p-trans-Coumaroyltyramine exhibits anti-trypanosomal activity with an IC <sub>50</sub> of 13.3 μM for <i>T. brucei rhodesiense</i> <sup>[1][2]</sup> .	
<b>IC<sub>50</sub> &amp; Target</b>	AChE	Trypanosoma

### REFERENCES

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[1]. Moradi-Afrapoli F, et al. Cinnamoylphenethyl amides from *Polygonum hyrcanicum* possess anti-trypanosomal activity. *Nat Prod Commun.* 2012 Jun;7(6):753-5.

[2]. Kim DK, et al. Inhibitory effect of trans-N-p-coumaroyl tryamine from the twigs of *Celtis chinensis* on the acetylcholinesterase. *Arch Pharm Res.* 2003 Sep;26(9):735-8.

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

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