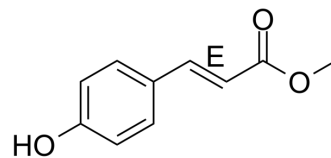


## (E)-Methyl 4-coumarate

<b>Cat. No.:</b>	HY-N2492		
<b>CAS No.:</b>	19367-38-5		
<b>Molecular Formula:</b>	C <sub>10</sub> H <sub>10</sub> O <sub>3</sub>		
<b>Molecular Weight:</b>	178.18		
<b>Target:</b>	Bacterial; Apoptosis		
<b>Pathway:</b>	Anti-infection; Apoptosis		
<b>Storage:</b>	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



### SOLVENT & SOLUBILITY

<b>In Vitro</b>	DMSO : 100 mg/mL (561.23 mM; Need ultrasonic)				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
	<b>Preparing Stock Solutions</b>	1 mM	5.6123 mL	28.0615 mL	56.1230 mL
		5 mM	1.1225 mL	5.6123 mL	11.2246 mL
10 mM		0.5612 mL	2.8062 mL	5.6123 mL	
Please refer to the solubility information to select the appropriate solvent.					
<b>In Vivo</b>	<ol style="list-style-type: none"> <li>Add each solvent one by one: 10% DMSO &gt;&gt; 40% PEG300 &gt;&gt; 5% Tween-80 &gt;&gt; 45% saline Solubility: ≥ 2.5 mg/mL (14.03 mM); Clear solution</li> <li>Add each solvent one by one: 10% DMSO &gt;&gt; 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (14.03 mM); Clear solution</li> <li>Add each solvent one by one: 10% DMSO &gt;&gt; 90% corn oil Solubility: ≥ 2.5 mg/mL (14.03 mM); Clear solution</li> </ol>				

### BIOLOGICAL ACTIVITY

<b>Description</b>	(E)-Methyl 4-coumarate (Methyl 4-hydroxycinnamate), found in several plants, such as green onion ( <i>Allium cepa</i> ) or noni ( <i>Morinda citrifolia</i> L.) leaves. (E)-Methyl 4-coumarate cooperates with Carnosic Acid in inducing apoptosis and killing acute myeloid leukemia cells, but not normal peripheral blood mononuclear cells. Antioxidant and antimicrobial activity.
--------------------	---

### REFERENCES

---

[1]. Trachtenberg A, et al. Synergistic Cytotoxicity of Methyl 4-Hydroxycinnamate and Carnosic Acid to Acute Myeloid Leukemia Cells via Calcium-Dependent Apoptosis Induction. Front Pharmacol. 2019 May 9;10:507.

---

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: [tech@MedChemExpress.com](mailto:tech@MedChemExpress.com)

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA