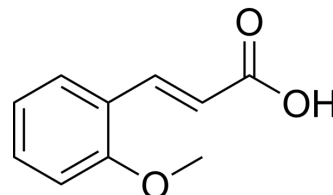


## 2-Methoxycinnamic acid

Cat. No.:	HY-N1386		
CAS No.:	6099-03-2		
Molecular Formula:	C <sub>10</sub> H <sub>10</sub> O <sub>3</sub>		
Molecular Weight:	178.18		
Target:	Tyrosinase		
Pathway:	Metabolic Enzyme/Protease		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	2 years
		-20°C	1 year



### SOLVENT & SOLUBILITY

#### In Vitro

DMSO : 100 mg/mL (561.23 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
	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.

#### In Vivo

- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline  
Solubility: ≥ 2.5 mg/mL (14.03 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil  
Solubility: ≥ 2.5 mg/mL (14.03 mM); Clear solution

### BIOLOGICAL ACTIVITY

#### Description

2-Methoxycinnamic acid is a noncompetitive inhibitor of tyrosinase<sup>[1]</sup>.

### REFERENCES

- [1]. Lee HS, et al. Tyrosinase inhibitors of Pulsatilla cernua root-derived materials. J Agric Food Chem. 2002 Mar 13;50(6):1400-3.

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

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