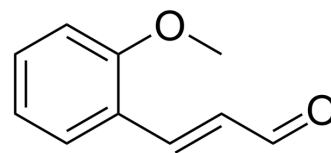


2-Methoxycinnamaldehyde

Cat. No.: HY-W046353
CAS No.: 1504-74-1
Molecular Formula: C₁₀H₁₀O₂
Molecular Weight: 162.19
Target: Apoptosis
Pathway: Apoptosis
Storage: -20°C, stored under nitrogen
 * In solvent : -80°C, 6 months; -20°C, 1 month (stored under nitrogen)



SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (616.56 mM; Need ultrasonic)					
	Preparing Stock Solutions	<div><div>Solvent</div><div>Concentration</div></div>	Mass	1 mg	5 mg	10 mg
		1 mM	6.1656 mL	30.8280 mL	61.6561 mL	
		5 mM	1.2331 mL	6.1656 mL	12.3312 mL	
		10 mM	0.6166 mL	3.0828 mL	6.1656 mL	
Please refer to the solubility information to select the appropriate solvent.						
In Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.5 mg/mL (15.41 mM); Clear solution					
	2. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (15.41 mM); Clear solution					

BIOLOGICAL ACTIVITY

Description	2-Methoxycinnamaldehyde (o-Methoxycinnamaldehyde) is a natural compound of Cinnamomum cassia, with antitumor activity ^{[1][2][3]} . 2-Methoxycinnamaldehyde inhibits proliferation and induces apoptosis by mitochondrial membrane potential (ΔΨm) loss, activation of both caspase-3 and caspase-9 ^[2] . 2-Methoxycinnamaldehyde effectively inhibits platelet-derived growth factor (PDGF)-induced HASMC migration ^[3] .
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REFERENCES

- [1]. Wong HY, et al. Cinnamomum verum Component 2-Methoxycinnamaldehyde: A Novel Anticancer Agent with Both Anti-Topoisomerase I and II Activities in Human Lung Adenocarcinoma A549 Cells In Vitro and In Vivo. *Phytother Res.* 2016 Feb;30(2):331-40.
- [2]. Liu YH, et al. Cinnamomum verum ingredient 2-methoxycinnamaldehyde: a new antiproliferative drug targeting topoisomerase I and II in human lung squamous cell

carcinoma NCI-H520 cells. Eur J Cancer Prev. 2017 Jul;26(4):314-323.

[3]. Jin YH, et al. 2-Methoxycinnamaldehyde inhibits the TNF- α -induced proliferation and migration of human aortic smooth muscle cells. Int J Mol Med. 2017 Jan;39(1):191-198.

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

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