



SZABO SCANDIC

Part of Europa Biosite

Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

Weitere Information auf den folgenden Seiten!
See the following pages for more information!



Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

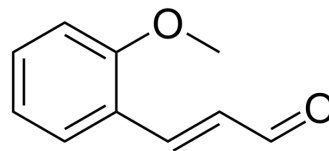
mail@szabo-scandic.com

www.szabo-scandic.com

[linkedin.com/company/szaboscandic](https://www.linkedin.com/company/szaboscandic) 

2-Methoxycinnamaldehyde

Cat. No.:	HY-W046353
CAS No.:	1504-74-1
Molecular Formula:	C ₁₀ H ₁₀ O ₂
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)				
		Solvent Concentration	Mass		
	Preparing Stock Solutions		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 ($\Delta\Psi$ m) loss, activation of both caspase-3 and caspase-9 ^[2] . 2-Methoxycinnamaldehyde effectively inhibits platelet-derived growth factor (PDGF)-induced HASMC migration ^[3] .
-------------	---

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.

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

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