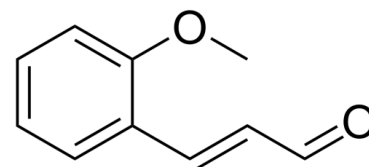


Data Sheet

Product Name:	2-Methoxycinnamaldehyde
Cat. No.:	CS-0065992
CAS No.:	1504-74-1
Molecular Formula:	C ₁₀ H ₁₀ O ₂
Molecular Weight:	162.19
Target:	Apoptosis
Pathway:	Apoptosis
Solubility:	DMSO : 100 mg/mL (616.56 mM; Need ultrasonic)



BIOLOGICAL ACTIVITY:

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.

CAIndexNames:

2-Propenal, 3-(2-methoxyphenyl)-

SMILES:

O=C/C=C/C1=CC=CC=C1OC

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

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