

Product Information

Product ID M9368

CAS No. 607-91-0

Chemical Name 4-Methoxy-6-(2-propenyl)-1,3-benzodioxole

Synonym 5-Allyl-1-methoxy-2,3-(methylenedioxy)benzene

Formula C₁₁H₁₂O₃

Formula Wt. 192.21

Melting Point -2.00E+01 °C

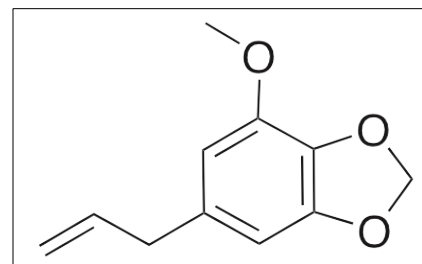
Purity ≥97%

Solubility Insoluble in water. Soluble in ethanol (30 mg/mL), DMSO (25 mg/mL), DMF (25 mg/mL) or acetone.

Store Temp -20 °C

Ship Temp Ambient

Description Myristicin is an allylbenzene found in spices and umbelliferous plants. Myristicin exhibits anticancer, anti-inflammatory, and antibiotic activities. In leukemia cells, myristicin decreases the mitochondrial membrane potential and increases cytochrome c release and activation of caspase 3 and PARP, inducing apoptosis. In alveolar epithelial cells, myristicin decreases IL-1β-induced production of IL-6. Myristicin also exhibits antibacterial and antifungal efficacy against *Clostridium*, *Enterococcus*, *Candida*, *Eubacterium*, and *Peptostreptococcus*. At high doses, myristicin may be neurotoxic.



Bulk quantities available upon request

Product ID	Size
M9368	100 mg
M9368	500 mg
M9368	1 g

References Martins C, Doran C, Silva IC, et al. Myristicin from nutmeg induces apoptosis via the mitochondrial pathway and down regulates genes of the DNA damage response pathways in human leukaemia K562 cells. *Chem Biol Interact.* 2014 Jul 25;218:1-9. PMID: 24792648.

Lim HJ, Woo KW, Lee KR, et al. Inhibition of Proinflammatory Cytokine Generation in Lung Inflammation by the Leaves of *Perilla frutescens* and Its Constituents. *Biomol Ther (Seoul).* 2014 Jan;22(1):62-7. PMID: 24596623.

Fraternale D, Genovese S, Ricci D. Essential oil composition and antimicrobial activity of aerial parts and ripe fruits of *Echinophora spinosa* (Apiaceae) from Italy. *Nat Prod Commun.* 2013 Apr;8(4):527-30. PMID: 23738471.

Caution: This product is intended for laboratory and research use only. It is not for human or drug use.