



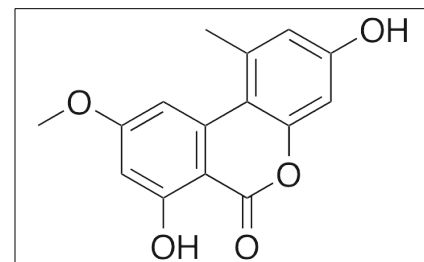
LKT Laboratories, Inc.

Alternariol-9-methyl Ether

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Product Information

Product ID A4678
CAS No. 26894-49-5; 23452-05-3
Chemical Name 6H-Dibenzo(b,d)pyran-6-one, 3,7-dihydroxy-9-methoxy-1-methyl
Synonym AME; Djalonenzone; Alternariol monomethyl ether; Alternariol methyl ether; Alternariol-9-methyl ether
Formula C₁₅H₁₂O₅
Formula Wt. 272.25
Melting Point
Purity ≥98%
Solubility Soluble in DMSO, ethanol, methanol



Bulk quantities available upon request

Product ID	Size
A4678	0.1 mg
A4678	1 mg
A4678	5 mg

Store Temp 4°C
Ship Temp Ambient

Description Alternariol 9-methyl ether (A9ME) is a highly toxic mutagenic phytotoxin initially produced by species of *Alternaria*. A9ME is present in grain and fruit used for livestock feed and human consumption. A9ME inhibits the electron transport chain, preventing photosynthesis in vitro. Additionally, A9ME may exhibit anticancer potential in a cellular model of colon carcinoma, as it decreases the mitochondrial membrane potential, increasing release of cytochrome c and activating caspases 3 and 9; this results in apoptosis and cell death.

References Demuner AJ, Barbosa LC, Miranda AC, et al. The Fungal Phytotoxin Alternariol 9-Methyl Ether and Some of Its Synthetic Analogues Inhibit the Photosynthetic Electron Transport Chain. *J Nat Prod*. 2013 Nov 18. [Epub ahead of print]. PMID: 24245962.

Broggi L, Reynoso C, Resnik S, et al. Occurrence of alternariol and alternariol monomethyl ether in beverages from the Entre Rios Province market, Argentina. *Mycotoxin Res*. 2013 Feb;29(1):17-22. PMID: 23334721.

Scott PM, Zhao W, Feng S, et al. Alternaria toxins alternariol and alternariol monomethyl ether in grain foods in Canada. *Mycotoxin Res*. 2012 Nov;28(4):261-6. PMID: 23087499.

Bensassi F, Gallerne C, el Dein OS, et al. Mechanism of Alternariol monomethyl ether-induced mitochondrial apoptosis in human colon carcinoma cells. *Toxicology*. 2011 Dec 18;290(2-3):230-40. PMID: 22001388.

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