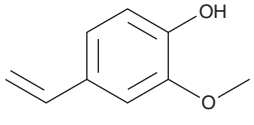
PRODUCT INFORMATION

2-Methoxy-4-vinylphenol

Item No. 36427

CAS Registry No.:	7786-61-0
Formal Name:	4-ethenyl-2-methoxy-phenol
Synonyms:	MVP, 4-Vinylguaiacol, *p*-Vinylguaiacol
MF:	$C_9H_{10}O_2$
FW:	150.2
Purity:	≥98%
UV/Vis.:	λ_{max}: 212, 266 nm
Supplied as:	A neat oil
Storage:	-20°C
Stability:	≥4 years
Item Origin:	Synthetic



Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

2-Methoxy-4-vinylphenol is supplied as a neat oil. A stock solution may be made by dissolving the 2-methoxy-4-vinylphenol in the solvent of choice, which should be purged with an inert gas. 2-Methoxy-4-vinylphenol is slightly soluble in methanol, ethyl acetate, chloroform, and DMSO.

Description

2-Methoxy-4-vinylphenol is a phenol that has been found in *S. brachiariae* and has diverse biological activities.[1,2] It is also a gut microbiota-derived active metabolite of the phenol ferulic acid (Item No. 19871).[1] 2-Methoxy-4-vinylphenol inhibits α-glucosidase, α-amylase, and tyrosinase (K_is = 47.7, 189, and 40.3 µg/ml, respectively).[2] It induces cell cycle arrest at the S and G_2/M phases and apoptosis in HT-29 colorectal cancer cells when used at a concentration of 1 mM.[1] Formulations containing 2-methoxy-4-vinylphenol have been used as flavoring agents.

References

1. Luo, Y., Wang, C.-Z., Sawadogo, R., *et al.* 4-Vinylguaiacol, an active metabolite of ferulic acid by enteric microbiota and probiotics, possesses significant activities against drug-resistant human colorectal cancer cells. *ACS Omega* **6(7)**, 4551-4561 (2021).
2. Nanok, K. and Sansenya, S. Combination effects of rice extract and five aromatic compounds against α-glucosidase, α-amylase and tyrosinase. *J. Biosci. Bioeng.* **132(1)**, 9-17 (2021).

WARNING
THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

SAFETY DATA
This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the complete Safety Data Sheet, which has been sent *via* email to your institution.

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