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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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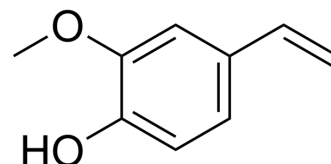
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2-Methoxy-4-vinylphenol

Cat. No.:	HY-W019940
CAS No.:	7786-61-0
Molecular Formula:	C ₉ H ₁₀ O ₂
Molecular Weight:	150.17
Target:	Endogenous Metabolite
Pathway:	Metabolic Enzyme/Protease
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 (665.91 mM; Need ultrasonic)					
	Preparing Stock Solutions	Solvent Concentration	Mass	1 mg	5 mg	10 mg
		1 mM		6.6591 mL	33.2956 mL	66.5912 mL
		5 mM		1.3318 mL	6.6591 mL	13.3182 mL
		10 mM		0.6659 mL	3.3296 mL	6.6591 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 (16.65 mM); Clear solution					
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: 2.5 mg/mL (16.65 mM); Suspended solution; Need ultrasonic					
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil					
	Solubility: ≥ 2.5 mg/mL (16.65 mM); Clear solution					

BIOLOGICAL ACTIVITY

Description	2-Methoxy-4-vinylphenol (2M4VP), a naturally Germination inhibitor, exerts potent anti-inflammatory effects ^{[1][2]} .
IC ₅₀ & Target	Human Endogenous Metabolite
In Vitro	2-Methoxy-4-vinylphenol (2M4VP) potently inhibits the translocation of NF-κB p65 into the nucleus by IκB degradation following IκB-α phosphorylation and the phosphorylation of MAPKs such as p38, ERK1/2, and JNK^[1]. 2-Methoxy-4-vinylphenol (2M4VP) inhibits hyper-acetylation of histone H3 (Lys9/Lys14) induced by LPS^[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only. Western Blot Analysis^[1]

Cell Line:	RAW264.7 cells.
Concentration:	0-40 μ M.
Incubation Time:	24 h.
Result:	Inhibited the over-expression of iNOS and COX-2 protein in LPS-stimulated RAW264.7 cells.

REFERENCES

- [1]. Jin Boo Jeong, et al. Anti-inflammatory Effect of 2-methoxy-4-vinylphenol via the Suppression of NF- κ B and MAPK Activation, and Acetylation of Histone H3. Arch Pharm Res. 2011 Dec;34(12):2109-16.
- [2]. Hossein Reza Darabi, et al. A Structure-Activity Relationship Study on a Natural Germination Inhibitor, 2-methoxy-4-vinylphenol (MVP), in Wheat Seeds to Evaluate Its Mode of Action. Z Naturforsch C J Biosci. Sep-Oct 2007;62(9-10):694-700.

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

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