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Lieferung & Zahlungsart

siehe unsere Liefer- und Versandbedingungen

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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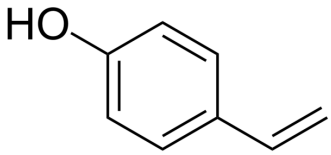
4-Vinylphenol

Cat. No.:	HY-W005288
CAS No.:	2628-17-3
Molecular Formula:	C_8H_8O
Molecular Weight:	120.15
Target:	Apoptosis; Endogenous Metabolite
Pathway:	Apoptosis; Metabolic Enzyme/Protease
Storage:	Solution, -20°C, 2 years



SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (832.29 mM; Need ultrasonic)
In Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.5 mg/mL (20.81 mM); Clear solution 2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: 2.5 mg/mL (20.81 mM); Suspended solution; Need ultrasonic 3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (20.81 mM); Clear solution

BIOLOGICAL ACTIVITY

Description	4-Vinylphenol is found in the medicinal herb Hedyotis diffusa Willd, wild rice and is also the metabolite of p-coumaric and ferulic acid by lactic acid bacteria in wine. 4-Vinylphenol induces apoptosis and inhibits blood vessels formation and suppresses invasive breast tumor growth in vivo[1].
IC_{50} & Target	Human Endogenous Metabolite
In Vitro	4-Vinylphenol (12.5-200 μg/mL) significantly reduces cell viability in parental MDA-MB-231 cells, and the IC50 value is 109 μg/mL[1]. 4-Vinylphenol (0.15 or 0.3 μg/mL; 3 days) reduces sphere formation and vimentin expression on CSCs in breast cancer[1]. 4-Vinylphenol (50, 100 μg/mL; 72 hours) significantly suppresses cell proliferation in CSC-enriched MDA-MB-231 cells. 4-Vinylphenol significantly reduces ALDH1A1 expression by 50% in CSC-enriched MDA-MB-231 cells[1]. 4-Vinylphenol (100 μg/mL) significantly increases the expressions of caspase 3, likely sensitizing CSC-enriched MDAMB-231 cells to apoptosis[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Leung HW, et al. The natural agent 4-vinylphenol targets metastasis and stemness features in breast cancer stem-like cells. Cancer Chemother Pharmacol. 2018 Aug;82(2):185-197.

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