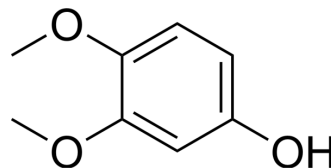


3,4-Dimethoxyphenol

Cat. No.:	HY-N1780
CAS No.:	2033-89-8
Molecular Formula:	C ₈ H ₁₀ O ₃
Molecular Weight:	154.16
Target:	Tyrosinase
Pathway:	Metabolic Enzyme/Protease
Storage:	4°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (648.68 mM; Need ultrasonic)				
		Solvent Concentration	Mass		
	Preparing Stock Solutions		1 mg	5 mg	10 mg
		1 mM	6.4868 mL	32.4338 mL	64.8677 mL
		5 mM	1.2974 mL	6.4868 mL	12.9735 mL
	10 mM	0.6487 mL	3.2434 mL	6.4868 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 (16.22 mM); Clear solution				
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (16.22 mM); Clear solution				
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (16.22 mM); Clear solution				

BIOLOGICAL ACTIVITY

Description	3,4-Dimethoxyphenol is a plant-derived phenylpropanoid compound and can use as a whitening agent in cosmetics. 3,4-Dimethoxyphenol has tyrosinase-inhibiting activity ^[1] . 3,4-Dimethoxyphenol has potent antioxidant effect isolated from the bacterial fermentation broth ^[2] .
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REFERENCES

[1]. Tanimoto S, et al. Synthesis and cosmetic whitening effect of glycosides derived from several phenylpropanoids. Yakugaku Zasshi. 2006 Mar;126(3):173-7.

[2]. Tomohiro Takaoa, et al. A Simple Screening Method for Antioxidants and Isolation of Several Antioxidants Produced by Marine Bacteria from Fish and Shellfish. *Bioscience, Biotechnology, and Biochemistry*. 1994, 58(10), 1780-1783.

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

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