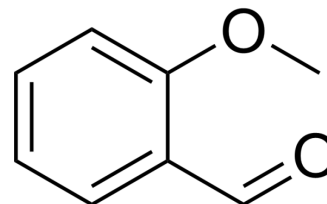


2-Methoxybenzaldehyde

Cat. No.:	HY-77995
CAS No.:	135-02-4
Molecular Formula:	C ₈ H ₈ O ₂
Molecular Weight:	136.15
Target:	Bacterial; Fungal
Pathway:	Anti-infection
Storage:	4°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 (734.48 mM; Need ultrasonic)				
		Solvent Concentration	Mass		
	Preparing Stock Solutions		1 mg	5 mg	10 mg
		1 mM	7.3448 mL	36.7242 mL	73.4484 mL
		5 mM	1.4690 mL	7.3448 mL	14.6897 mL
	10 mM	0.7345 mL	3.6724 mL	7.3448 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 (18.36 mM); Clear solution				
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (18.36 mM); Clear solution				
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (18.36 mM); Clear solution				

BIOLOGICAL ACTIVITY

Description	2-Methoxybenzaldehyde (o-Anisaldehyde), isolated from cinnamon essential oil (CEO), exists antibacterial and antifungal activity ^[1] .
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REFERENCES

[1]. Zhaoxiang Huang, et al. Synergistic effects of cinnamaldehyde and cinnamic acid in cinnamon essential oil against *S. pullorum*. Industrial Crops and Products, 2021-02-03.

[2]. Sheikh Shreaz, et al. Interesting anticandidal effects of anisic aldehydes on growth and proton-pumping-ATPase-targeted activity. *Microb Pathog.* 2011 Oct;51(4):277-84.

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

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