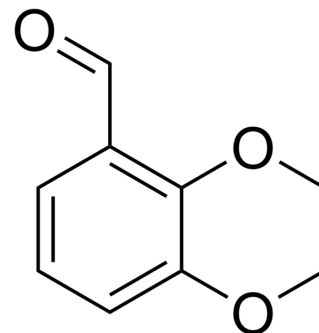


## 2,3-Dimethoxybenzaldehyde

Cat. No.:	HY-41407
CAS No.:	86-51-1
Molecular Formula:	C <sub>9</sub> H <sub>10</sub> O <sub>3</sub>
Molecular Weight:	166.17
Target:	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 (601.79 mM; Need ultrasonic)				
	Preparing Stock Solutions	Solvent Concentration	1 mg	5 mg	10 mg
		1 mM	6.0179 mL	30.0897 mL	60.1793 mL
		5 mM	1.2036 mL	6.0179 mL	12.0359 mL
		10 mM	0.6018 mL	3.0090 mL	6.0179 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 (15.04 mM); Clear solution				
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (15.04 mM); Clear solution				
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (15.04 mM); Clear solution				

### BIOLOGICAL ACTIVITY

Description	2,3-Dimethoxybenzaldehyde (o-Veratraldehyde) is a benzaldehyde analog, with high antifungal activity (MIC=2.5 mM) 2,3-Dimethoxybenzaldehyde (o-Veratraldehyde) could be used for the synthesis of berberine <sup>[1]</sup> .
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### REFERENCES

[1]. Kim JH, et al. Antifungal activity of redox-active benzaldehydes that target cellular antioxidation. Ann Clin Microbiol Antimicrob.

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

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