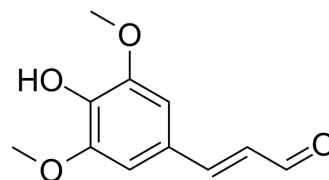


Sinapaldehyde

Cat. No.:	HY-N1312
CAS No.:	4206-58-0
Molecular Formula:	C ₁₁ H ₁₂ O ₄
Molecular Weight:	208.21
Target:	Bacterial
Pathway:	Anti-infection
Storage:	4°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



SOLVENT & SOLUBILITY

In Vitro	DMSO : 50 mg/mL (240.14 mM; Need ultrasonic)				
	Preparing Stock Solutions	Solvent Concentration	1 mg	5 mg	10 mg
		1 mM	4.8028 mL	24.0142 mL	48.0284 mL
		5 mM	0.9606 mL	4.8028 mL	9.6057 mL
		10 mM	0.4803 mL	2.4014 mL	4.8028 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 (12.01 mM); Clear solution				
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (12.01 mM); Clear solution				

BIOLOGICAL ACTIVITY

Description	Sinapaldehyde exhibits moderate antibacterial against Methicillin resistant <i>S. aureus</i> (MRSA) and <i>E. coli</i> with MIC values of 128 and 128 µg/mL ^[1] .
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REFERENCES

[1]. Waranya Lakornwong, et al. A New Coruleoellagic Acid Derivative From Stems of *Rhodamnia Dumetorum*. *Nat Prod Res.* 2018 Jul;32(14):1653-1659.

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

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