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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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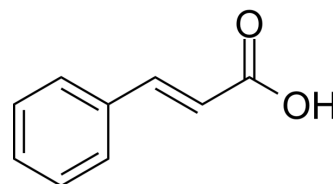
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trans-Cinnamic acid

Cat. No.:	HY-N0610		
CAS No.:	140-10-3		
Molecular Formula:	C ₉ H ₈ O ₂		
Molecular Weight:	148.16		
Target:	Bacterial; Endogenous Metabolite		
Pathway:	Anti-infection; Metabolic Enzyme/Protease		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	2 years
		-20°C	1 year



SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (674.95 mM; Need ultrasonic)					
	Preparing Stock Solutions	Solvent Concentration	Mass	1 mg	5 mg	10 mg
		1 mM		6.7495 mL	33.7473 mL	67.4946 mL
		5 mM		1.3499 mL	6.7495 mL	13.4989 mL
		10 mM		0.6749 mL	3.3747 mL	6.7495 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 (16.87 mM); Clear solution					
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (16.87 mM); Clear solution					
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (16.87 mM); Clear solution					

BIOLOGICAL ACTIVITY

Description	trans-Cinnamic acid is a natural antimicrobial, with minimal inhibitory concentration (MIC) of 250 µg/mL against fish pathogen <i>A. sobria</i> , SY-AS1 ^[1] .	
IC ₅₀ & Target	Microbial Metabolite	Human Endogenous Metabolite
In Vitro	trans-Cinnamic acid is an antimicrobial activity, with minimal inhibitory concentration (MIC) of 250 µg/mL against fish pathogen <i>A. sobria</i> , SY-AS1. trans-cinnamic acid shows moderate inhibition on the rainbow trout intestinal isolates <i>A. sobria</i>	

SY-AS3 and *S. baltica*, SY-S145, gill isolate *F. spartansii* SY-FS1 and fish pathogens *A. salmonicida* ATCC 33658, *Listonella anguillarum*, SY-L24, *V. crassostreae* SY-VC10 and *Y. ruckeri* E42. trans-cinnamic acid is more effective on bacteria when the pH of the culture media is not neutralized^[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Yilmaz S, et al. Antimicrobial activity of trans-cinnamic acid and commonly used antibiotics against important fish pathogens and nonpathogenic isolates. *J Appl Microbiol.* 2018 Sep 4.

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

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