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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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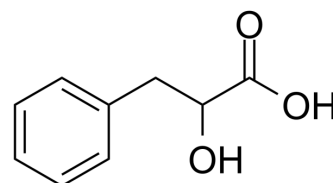
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DL-3-Phenyllactic acid

Cat. No.:	HY-W017162		
CAS No.:	828-01-3		
Molecular Formula:	C ₉ H ₁₀ O ₃		
Molecular Weight:	166.18		
Target:	Endogenous Metabolite; Bacterial		
Pathway:	Metabolic Enzyme/Protease; Anti-infection		
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 : 125 mg/mL (752.20 mM; Need ultrasonic)				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
	Preparing Stock Solutions	1 mM	6.0176 mL	30.0879 mL	60.1757 mL
		5 mM	1.2035 mL	6.0176 mL	12.0351 mL
10 mM		0.6018 mL	3.0088 mL	6.0176 mL	
Please refer to the solubility information to select the appropriate solvent.					
In Vivo	<ol style="list-style-type: none"> Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.08 mg/mL (12.52 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.08 mg/mL (12.52 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.08 mg/mL (12.52 mM); Clear solution 				

BIOLOGICAL ACTIVITY

Description	DL-3-Phenyllactic acid is a broad-spectrum antimicrobial compound.
IC₅₀ & Target	Human Endogenous Metabolite
In Vitro	DL-3-Phenyllactic acid (3-Phenyllactic acid, PLA), which is an organic acid widely existing in honey and lactic acid bacteria fermented food, can be produced by many microorganisms, especially lactic acid bacteria. DL-3-Phenyllactic acid is proved as an ideal antimicrobial compound with broad and effective antimicrobial activity against both bacteria and fungi. In

addition, DL-3-Phenyllactic acid can be used as feed additives to replace antibiotics in livestock feeds^[1].
MCE has not independently confirmed the accuracy of these methods. They are for reference only.

CUSTOMER VALIDATION

- Viruses. 2024 Mar 13, 16(3), 449.
- Research Square Preprint. 2021 Aug.

See more customer validations on www.MedChemExpress.com

REFERENCES

[1]. Mu W, et al. Recent research on 3-phenyllactic acid, a broad-spectrum antimicrobial compound. Appl Microbiol Biotechnol. 2012 Sep;95(5):1155-63.

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

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