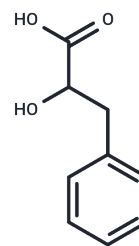


DL-3-Phenyllactic acid

Chemical Properties

CAS No. :	828-01-3
Formula:	C ₉ H ₁₀ O ₃
Molecular Weight:	166.17
Appearance:	no data available
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year



Biological Description

Description	3-Phenyllactic acid (PhLA) is a broad spectrum antimicrobial compound active against bacteria and fungi, DL-3-Phenyllactic acid (3-Phenyllactic acid) is a reagent involved in biological studies of nantioselectivity of lipase in transesterification and oxidation by glycolate oxidase and catalase.
Targets(IC50)	Others,Endogenous Metabolite,Antibacterial
In vitro	PhLA exists in two chiral isomers, L-PhLA and D-PhLA,which show antimicrobial activity. D-PhLA shows more antimicrobial activity than L-PhLA and hence it is receiving great attention as food and feed additive in place antibiotics which control the microbial contamination and thereby increase the shelf life of food and food ingredients.

Solubility Information

Solubility	DMSO: 125 mg/mL (752.20 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
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	3.009 mL	6.0179 mL
50 mM	0.1204 mL	0.6018 mL	1.2036 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Reference

Svanström Å,etal.The lactic acid bacteria metabolite phenyllactic acid inhibits both radial growth and sporulation of filamentous fungi.BMC Res Notes. 2013 Nov 14;6:464.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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Tel:781-999-4286 E_mail:info@targetmol.com Address:36 Washington Street,Wellesley Hills,MA 02481