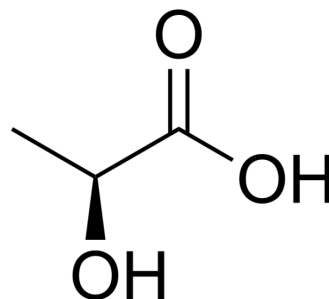


L-Lactic acid

Cat. No.:	HY-Y0479
CAS No.:	79-33-4
Molecular Formula:	C ₃ H ₆ O ₃
Molecular Weight:	90.08
Target:	Endogenous Metabolite; Bacterial; Antibiotic
Pathway:	Metabolic Enzyme/Protease; Anti-infection
Storage:	4°C, sealed storage, away from moisture * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



SOLVENT & SOLUBILITY

In Vitro	H ₂ O : 100 mg/mL (1110.12 mM; Need ultrasonic)					
	DMSO : 100 mg/mL (1110.12 mM; Need ultrasonic)					
	Preparing Stock Solutions	Solvent	Mass	1 mg	5 mg	10 mg
		Concentration				
		1 mM		11.1012 mL	55.5062 mL	111.0124 mL
5 mM			2.2202 mL	11.1012 mL	22.2025 mL	
	10 mM		1.1101 mL	5.5506 mL	11.1012 mL	
Please refer to the solubility information to select the appropriate solvent.						
In Vivo	1. Add each solvent one by one: PBS Solubility: 100 mg/mL (1110.12 mM); Clear solution; Need ultrasonic					
	2. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.08 mg/mL (23.09 mM); Clear solution					
	3. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.08 mg/mL (23.09 mM); Clear solution					
	4. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.08 mg/mL (23.09 mM); Clear solution					

BIOLOGICAL ACTIVITY

Description	L-Lactic acid is a building block which can be used as a precursor for the production of the bioplastic polymer poly-lactic acid.			
IC₅₀ & Target	Human Endogenous Metabolite	Microbial Metabolite	Human Endogenous Metabolite	Microbial Metabolite

CUSTOMER VALIDATION

- Adv Sci (Weinh). 2023 Dec 25:e2304761.
- Small. 2022 Feb 14;e2107236.
- Int J Biol Macromol. 2022 Oct 6;S0141-8130(22)02246-2.
- Int Immunopharmacol. 2023 Nov 23:126:111265.

See more customer validations on www.MedChemExpress.com

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

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