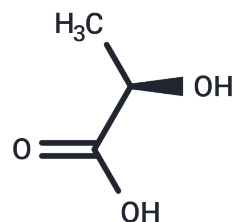


D-(-)-Lactic acid

Chemical Properties

CAS No. :	10326-41-7
Formula:	C ₃ H ₆ O ₃
Molecular Weight:	90.08
Appearance:	no data available
Storage:	store at low temperature
	Pure form: -20°C for 3 years In solvent: -80°C for 1 year



Biological Description

Description	D-(-)-Lactic acid is a normal intermediate in sugar fermentation (oxidation, metabolism). It is identified as a competitive inhibitor of ProDH (proline dehydrogenase) in plants.
Targets(IC50)	Endogenous Metabolite

Solubility Information

Solubility	DMSO: 125 mg/mL (1387.66 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	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
50 mM	0.222 mL	1.1101 mL	2.2202 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

Schertl P, et al. Biochemical characterization of proline dehydrogenase in Arabidopsis mitochondria. FEBS J. 2014 Jun;281(12):2794-804.

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