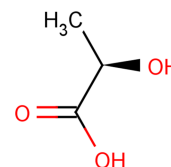


## Data Sheet (Cat.No.T10943)

D-(-)-Lactic acid

### Chemical Properties

CAS No.:	10326-41-7
Formula:	C <sub>3</sub> H <sub>6</sub> O <sub>3</sub>
Molecular Weight:	90.08
Appearance:	White to Off-white Low Melting Solid
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).



### 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(IC <sub>50</sub> )	Human Endogenous Metabolite: None

### Solubility Information

Solubility	DMSO: 125 mg/mL (1387.66 mM) ( < 1 mg/ml refers to the product slightly soluble or insoluble)
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#### Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	11.101 mL	55.506 mL	111.012 mL
5 mM	2.22 mL	11.101 mL	22.202 mL
10 mM	1.11 mL	5.551 mL	11.101 mL
50 mM	0.222 mL	1.11 mL	2.22 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

#### Reference

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

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