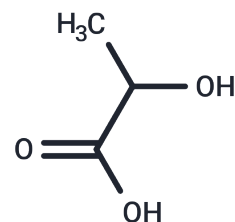


Lactic acid

Chemical Properties

CAS No. :	50-21-5
Formula:	C ₃ H ₆ O ₃
Molecular Weight:	90.08
Appearance:	no data available
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year



Biological Description

Description	Lactic acid (2-hydroxypropanoic acid) is a product of glycolysis and is widely found in nature. Lactic acid is produced in the body during hypoxia in contracted skeletal muscle and can be removed under fully aerobic conditions. Lactic acid can be used as a hemodynamic indicator in critically ill patients. Lactic acid has antitumor activity.
Targets(IC50)	Others

Solubility Information

Solubility	DMSO: 90.0 mg/mL (999.1 mM), Sonication is recommended. H ₂ O: 90.0 mg/mL (999.1 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

- Brooks GA. Lactate: link between glycolytic and oxidative metabolism. Sports Med. 2007;37(4-5):341-343.
Fuller BM, et al. Lactate as a hemodynamic marker in the critically ill. Curr Opin Crit Care. 2012;18(3):267-272.

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