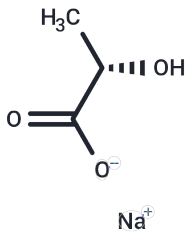
Data Sheet (Cat.No.T4103)

TargetMol

(L)-Sodium lactate

Chemical Properties



CAS No. : 867-56-1

Formula: C3H5NaO3

Molecular Weight: 112.06

Appearance: no data available

Storage: keep away from moisture
Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Biological Description

Description	(L)-Sodium lactate (Sodium L-Lactate) is produced from pyruvate by the enzyme Lactate Dehydrogenase. Lactate production occurs during anaerobic glycolysis or in proliferatively active cells. L-Lactic Acid occurs in small quantities in the blood and muscle fluid of man and animals. The lactic acid concentration increases in muscle and blood after vigorous activity. L-Lactic acid is also present in liver, kidney, thymus gland, human amniotic fluid, and other organs and body fluids.
Targets(IC50)	Others

Solubility Information

Solubility	DMSO: 50 mg/mL (446.19 mM),Sonication is recommended. H2O: 23.8 mg/mL (212.39 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	8.9238 mL	44.619 mL	89.2379 mL
5 mM	1.7848 mL	8.9238 mL	17.8476 mL
10 mM	0.8924 mL	4.4619 mL	8.9238 mL
50 mM	0.1785 mL	0.8924 mL	1.7848 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

Martí I. et al. Acyclic Pseudopeptidic Hosts as Molecular Receptors and Transporters for Anions. Eur. J. Org. Chem. 2015, 2015 (23), 5150-5158.
Li M, Yang J, Ye C, et al. Integrated Metabolomics and Transcriptomics Analyses Reveal Metabolic Landscape in Neuronal Cells during JEV Infection. Virologica Sinica. 2021: 1-12.
Monošík R, et al. A simple paper-strip colorimetric method utilizing dehydrogenase enzymes for analysis of food components[J]. Analytical Methods, 2015, 7(19):8177-8184.

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