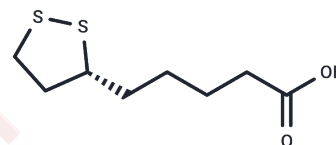


## Lipoic acid

## Chemical Properties

CAS No. :	1200-22-2
Formula:	C <sub>8</sub> H <sub>14</sub> O <sub>2</sub> S <sub>2</sub>
Molecular Weight:	206.33
Storage:	Powder: -20°C for 3 years   In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



## Biological Description

Description	Lipoic acid (R-(-)-Thioctic acid) is an organosulfur compound derived from octanoic acid. It is made in animals normally, and is essential for aerobic metabolism.
Targets(IC50)	Reactive Oxygen Species, Mitochondrial Metabolism, Endogenous Metabolite, ROS

## Solubility Information

Solubility	DMSO: 242 mg/mL (1172.88 mM), Sonication is recommended. H <sub>2</sub> O: < 0.1 mg/mL (insoluble), (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 5 mg/mL (24.23 mM), Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	4.8466 mL	24.233 mL	48.466 mL
5 mM	0.9693 mL	4.8466 mL	9.6932 mL
10 mM	0.4847 mL	2.4233 mL	4.8466 mL
50 mM	0.0969 mL	0.4847 mL	0.9693 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.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Solmonson A D , Deberardinis R J . Lipoic acid metabolism and mitochondrial redox regulation[J]. Journal of Biological Chemistry, 2017:jbc.TM117.000259.

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