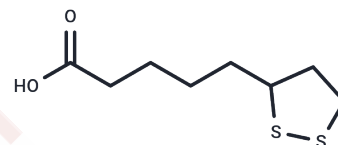


$\alpha$ -Lipoic Acid

## Chemical Properties

CAS No. :	1077-28-7
Formula:	C <sub>8</sub> H <sub>14</sub> O <sub>2</sub> S <sub>2</sub>
Molecular Weight:	206.33
Appearance:	no data available
Storage:	keep away from direct sunlight,store at low temperature,store under nitrogen
	Powder: -20°C for 3 years   In solvent: -80°C for 1 year



## Biological Description

Description	$\alpha$ -Lipoic Acid (DL- $\alpha$ -Lipoic acid) an octanoic acid bridged with two sulfurs so that it is sometimes also called a pentanoic acid in some naming schemes. It is biosynthesized by cleavage of LINOLEIC ACID and is a coenzyme of oxoglutarate dehydrogenase (KETOGLUTARATE DEHYDROGENASE COMPLEX). It is used in DIETARY SUPPLEMENTS.
Targets(IC50)	Apoptosis,NF- $\kappa$ B,HIV Protease,Mitochondrial Metabolism,Endogenous Metabolite

## Solubility Information

Solubility	DMSO: 55 mg/mL (266.56 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	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.

## Reference

Ning-Ping Foo, et al. Toxicology Volume 282, Issues 1-2, 28 March 2011, Pages 39-46

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