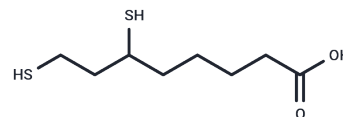


Dihydrolipoic acid

Chemical Properties

CAS No. :	462-20-4
Formula:	C ₈ H ₁₆ O ₂ S ₂
Molecular Weight:	208.34
Appearance:	no data available
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year



Biological Description

Description	Dihydrolipoic acid (USAF XR-12), a dithiol-containing carboxylic acid, acts as a general antioxidant that is highly reactive against a variety of reactive oxygen species, including peroxyntirite, hydroxyl radicals, hydrogen peroxide, and hypochlorite, at concentrations ranging from 0.01-0.5 mM.
Targets(IC50)	Antioxidant

Solubility Information

Solubility	DMSO: 50 mg/mL (239.99 mM), (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	4.7998 mL	23.9992 mL	47.9985 mL
5 mM	0.960 mL	4.7998 mL	9.5997 mL
10 mM	0.480 mL	2.3999 mL	4.7998 mL
50 mM	0.096 mL	0.480 mL	0.960 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

Oláh Z, Vogg ATJ, Kremmer T, Szűcs Z, Varga Z, Dóczi R. Optimization of the reduction of (74)As(V) to (74)As(III) and of the labelling of dithiol dihydrolipoic acid. Appl Radiat Isot. 2019 Jul;149:75-82. doi: 10.1016/j.apradiso.

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Tel:781-999-4286 E_mail:info@targetmol.com Address:36 Washington Street,Wellesley Hills,MA 02481