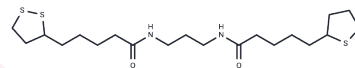


AN-7

Chemical Properties

CAS No. : 691410-93-2
 Formula: C19H34N2O2S4
 Molecular Weight: 450.75
 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	α -Lipoic acid is a cyclic disulfide antioxidant that interconverts with its reduced dithiol form. It is an essential cofactor for decarboxylation reactions of the citric acid cycle and acts as a general antioxidant. AN-7 is a more lipophilic analog of α -lipoic acid with enhanced potency and 1.5-fold increased maximal capacity to stimulate glucose transport into myocytes. This identifies the analogs of lipoic acid as potential new treatments for diabetes.
Targets(IC50)	Others, transporter

Solubility Information

Solubility	DMSO:PBS (pH 7.2)(1:4): 0.15 mg/mL (0.33 mM), Sonication is recommended. DMSO: 20 mg/mL (44.37 mM), Sonication is recommended. Ethanol: 2 mg/mL (4.44 mM), Sonication is recommended. DMF: 10 mg/mL (22.19 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	2.2185 mL	11.0926 mL	22.1852 mL
5 mM	0.4437 mL	2.2185 mL	4.437 mL
10 mM	0.2219 mL	1.1093 mL	2.2185 mL
50 mM	0.0444 mL	0.2219 mL	0.4437 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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

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