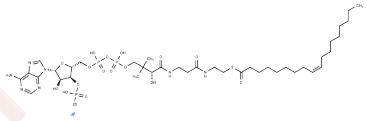
Data Sheet (Cat.No.T78511)

TargetMol

Oleoyl coenzyme A lithium

Chemical Properties



CAS No. : 188824-37-5

Formula: C39H67LiN7O17P3S

Molecular Weight: 1037.91

Storage: Store at low temperature
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	Oleoyl coenzyme A lithium (Oleoyl-CoA lithium) is an oleic acid and coenzyme A thioester, an efficient h15-LOX-2 allosteric inhibitor that inhibits h12-LOX and h15-LOX-2. It is used in the study of metabolic and cardiovascular diseases.
Targets(IC50)	Lipoxygenase
In vitro	Oleoyl coenzyme A lithium (1 μM) activates the sulfonylurea receptor 1 (SUR1) associated with the ATP-sensitive potassium channel Kir6.2. [1]

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.9635 mL	4.8174 mL	9.6347 mL
5 mM	0.1927 mL	0.9635 mL	1.9269 mL
10 mM	0.0963 mL	0.4817 mL	0.9635 mL
50 mM	0.0193 mL	0.0963 mL	0.1927 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

Gribble FM, et al. Mechanism of cloned ATP-sensitive potassium channel activation by oleoyl-CoA. J Biol Chem. 1998 Oct 9;273(41):26383-7.

Ensenauer R, et al. Human acyl-CoA dehydrogenase-9 plays a novel role in the mitochondrial beta-oxidation of unsaturated fatty acids. J Biol Chem. 2005 Sep 16;280(37):32309-16.

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