

Octanoyl Coenzyme A (sodium salt)

Chemical Properties

CAS No. :

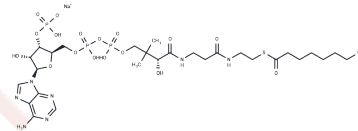
Formula: C₂₉H₄₉N₇NaO₁₇P₃S

Molecular Weight: 915.71

Store at low temperature

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	Octanoyl Coenzyme A (sodium salt) is a derivative of fatty acyl coenzyme A. Octanoyl coenzyme A sodium salt inhibits citrate synthase and glutamate dehydrogenase with an IC ₅₀ of 0.4-1.6 mM.
Targets(IC ₅₀)	Endogenous Metabolite, Dehydrogenase

Solubility Information

Solubility	PBS (pH 7.2): 6 mg/mL (6.55 mM), Sonication is recommended. Ethanol: Slightly soluble (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.092 mL	5.4602 mL	10.9205 mL
5 mM	0.2184 mL	1.092 mL	2.1841 mL
10 mM	0.1092 mL	0.546 mL	1.092 mL
50 mM	0.0218 mL	0.1092 mL	0.2184 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

Lai JC, et al. Differential effects of fatty acyl coenzyme A derivatives on citrate synthase and glutamate dehydrogenase. *Res Commun Chem Pathol Pharmacol*. 1993 Dec;82(3):331-8.

Corkey BE, et al. Relationship between unusual hepatic acyl coenzyme A profiles and the pathogenesis of Reye syndrome. *J Clin Invest*. 1988 Sep;82(3):782-8.

Amendt BA, Rhead WJ. Catalytic defect of medium-chain acyl-coenzyme A dehydrogenase deficiency. Lack of both cofactor responsiveness and biochemical heterogeneity in eight patients. *J Clin Invest*. 1985 Sep;76(3):963-9.

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