

Dephospho-CoA

Chemical Properties

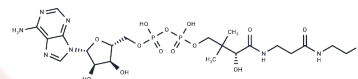
CAS No. : 3633-59-8

Formula: C₂₁H₃₅N₇O₁₃P₂S

Molecular Weight: 687.55

Storage: Store at low temperature, Store under nitrogen
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	Dephospho-CoA (dpCoA) is an endogenous compound extracted from Escherichia coli and Lactobacillus plantarum, and is an intermediate in coenzyme A biosynthesis.
Targets(IC50)	Endogenous Metabolite

Solubility Information

Solubility	H ₂ O: 40 mg/mL (58.18 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
------------	--------------------------------------------------------------------------------------------------------------------------------------

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.4544 mL	7.2722 mL	14.5444 mL
5 mM	0.2909 mL	1.4544 mL	2.9089 mL
10 mM	0.1454 mL	0.7272 mL	1.4544 mL
50 mM	0.0291 mL	0.1454 mL	0.2909 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

Swift RP, et al. Dephospho-CoA kinase, a nuclear-encoded apicoplast protein, remains active and essential after Plasmodium falciparum apicoplast disruption. EMBO J. 2021 Aug 16;40(16):e107247.

Shimosaka T, et al. Identification of Dephospho-Coenzyme A (Dephospho-CoA) Kinase in Thermococcus kodakarensis and Elucidation of the Entire CoA Biosynthesis Pathway in Archaea. mBio. 2019 Jul 23;10(4):e01146-19.

Sapkota, K., and Huang, F. Efficient one-pot enzymatic synthesis of dephospho coenzyme A. Bioorg. Chem. 76, 23-27 (2018).

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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

Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481