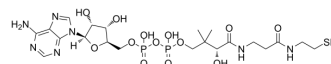


Dephospho-CoA

Cat. No.:	HY-137899		
CAS No.:	3633-59-8		
Molecular Formula:	C ₂₁ H ₃₅ N ₇ O ₁₃ P ₂ S		
Molecular Weight:	687.55		
Target:	Endogenous Metabolite		
Pathway:	Metabolic Enzyme/Protease		
Storage:	Powder	-20°C	3 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

H₂O : 50 mg/mL (72.72 mM; Need ultrasonic and warming)

Concentration	Mass		
	1 mg	5 mg	10 mg
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

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

Dephospho-CoA is a direct precursor of Coenzyme A (CoA). Dephospho-CoA kinase (DPCK) catalyzes the ATP-dependent phosphorylation of Dephospho-CoA, the final step in coenzyme A (CoA) biosynthesis^{[1][2]}.

IC₅₀ & Target

Human Endogenous Metabolite

REFERENCES

[1]. 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.

[2]. 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.

Caution: Product has not been fully validated for medical applications. For research use only.

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