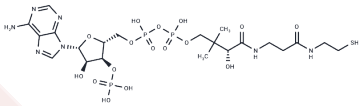


Coenzyme A

Chemical Properties

CAS No. : 85-61-0  
Formula: C<sub>21</sub>H<sub>36</sub>N<sub>7</sub>O<sub>16</sub>P<sub>3</sub>S  
Molecular Weight: 767.53  
Appearance: no data available  
Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year



Biological Description

Description	Coenzyme A is an obligatory cofactor in all living cells synthesized from pantothenate (Vitamin B5), adenosine triphosphate (ATP), and cysteine.
Targets(IC50)	Endogenous Metabolite
In vitro	Covalent binding of Coenzyme A to Peroxiredoxin 5 (Prdx5) results in complete inhibition of its peroxidase activity, which is reversed by reduction with DTT. Many human pathologies, including cancer, diabetes, and neurodegeneration, have been associated with abnormal biosynthesis and homeostasis of CoA and its derivatives.

Solubility Information

Solubility	DMSO: 50 mg/mL (65.14 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	1.3029 mL	6.5144 mL	13.0288 mL
5 mM	0.2606 mL	1.3029 mL	2.6058 mL
10 mM	0.1303 mL	0.6514 mL	1.3029 mL
50 mM	0.0261 mL	0.1303 mL	0.2606 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.

Reference

Baković J, et al. A key metabolic integrator, coenzyme A, modulates the activity of peroxiredoxin 5 via covalent modification. Mol Cell Biochem. 2019 Aug 2.  
Zhao Y, Li Y, Zhu R, et al.RPS15 interacted with IGF2BP1 to promote esophageal squamous cell carcinoma development via recognizing m6A modification.Signal Transduction and Targeted Therapy.2023, 8(1): 224.

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