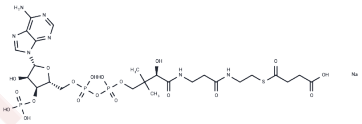
Data Sheet (Cat.No.T37323)

TargetMol

Succinyl-Coenzyme A sodium salt

Chemical Properties



CAS No. : 108347-97-3

Formula: C25H40N7NaO19P3S

Molecular Weight: 890.60

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	Succinyl-Coenzyme A sodium salt(Succinyl-CoA sodium salt) participates in the citric acid cycle, where it is converted to succinic acid.Succinyl-Coenzyme A (sodium salt) is involved in a variety of metabolic reactions in living organisms, and plays an important role in the body.Succinyl-Coenzyme A (sodium salt) is involved in heme synthesis. Succinyl-Coenzyme A (sodium salt) is involved in the synthesis of hemoglobin and is used in the study of metabolic, neurological, and hematological disorders caused by nutritional vitamin B12 deficiency, which results in a deficiency in Succinyl-Coenzyme A synthesis.
Targets(IC50)	Endogenous Metabolite

Solubility Information

Solubility	PBS (pH 7.2): 10.00 mg/mL (11.23 mM),Sonication is recommended. H2O: 10.00 mg/mL (11.23 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.1228 mL	5.6142 mL	11.2284 mL
5 mM	0.2246 mL	1.1228 mL	2.2457 mL
10 mM	0.1123 mL	0.5614 mL	1.1228 mL
50 mM	0.0225 mL	0.1123 mL	0.2246 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

Campbell C, et al. Accumulation of Succinyl Coenzyme A Perturbs the Methicillin-Resistant Staphylococcus aureus (MRSA) Succinylome and Is Associated with Increased Susceptibility to Beta-Lactam Antibiotics. mBio. 2021 Jun 29; 12(3):e0053021.

Bonkovsky HL, et al. Porphyrin and heme metabolism and the porphyrias. Compr Physiol. 2013; 3(1), 365-401.

Bicakci Z. Growth retardation, general hypotonia, and loss of acquired neuromotor skills in the infants of mothers with cobalamin deficiency and the possible role of succinyl-CoA and glycine in the pathogenesis. Medicine (Baltimore). 2015,94(9),e584.

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