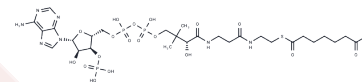


Pimeloyl-CoA

Chemical Properties

CAS No. :	18907-20-5
Formula:	C ₂₈ H ₄₆ N ₇ O ₁₉ P ₃ S
Molecular Weight:	909.69
Storage:	Store at low temperature Powder: -20°C for 3 years In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>



Biological Description

Description	Pimeloyl-CoA is a CoA derivative formed from pimelate, serving as a precursor in the biotin biosynthesis pathway of certain bacteria.
Targets(IC50)	Endogenous Metabolite
In vitro	Pimeloyl-CoA can be synthesized through a metabolic pathway similar to fatty acid synthesis and polyketide synthesis, which relies on enzymes encoded by the bioC and bioH genes in Escherichia coli [2].

Solubility Information

Solubility	H ₂ O: ≥ 80 mg/mL, 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	1.0993 mL	5.4964 mL	10.9928 mL
5 mM	0.2199 mL	1.0993 mL	2.1986 mL
10 mM	0.1099 mL	0.5496 mL	1.0993 mL
50 mM	0.022 mL	0.1099 mL	0.2199 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

Ifuku O, et al. Origin of carbon atoms of biotin. ^{13}C -NMR studies on biotin biosynthesis in Escherichia coli. Eur J Biochem. 1994 Mar 1;220(2):585-91.

Sanyal I, et al. Biosynthesis of pimeloyl-CoA, a biotin precursor in Escherichia coli, follows a modified fatty acid synthesis pathway: ^{13}C -labeling studies[J]. Journal of the American Chemical Society, 1994, 116(6): 2637-2638.

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