Creative Enzymes®

Acyl-CoA synthetase from Microorganism

Cat. No. NATE-1712

Lot. No. (See product label)

Introduction

Description	High-quality Acyl-CoA Synthetase from microorganisms for research on fatty acid metabolism and enzymatic activation. Perfect for metabolic and microbiological studies. Creative Enzymes delivers trusted solutions.
Synonyms	EC 6.2.1.3; ACS; acyl-CoA synthetase; fatty acid thiokinase (long chain); acyl-activating enzyme; palmitoyl-CoA synthase; lignoceroyl-CoA synthase; arachidonyl-CoA synthetase; acyl coenzyme A synthetase; acyl-CoA ligase; palmitoyl coenzyme A synthetase; thiokinase; palmitoyl-CoA ligase; acyl-coenzyme A ligase; fatty acid CoA ligase; long-chain fatty acyl coenzyme A synthetase; oleoyl-CoA synthetase; stearoyl-CoA synthetase; long chain fatty acyl-CoA synthetase; long-chain acyl CoA synthetase; fatty acid elongase; LCFA synthetase; pristanoyl-CoA synthetase; ACS3; long-chain acyl-CoA synthetase I; long-chain acyl-CoA synthetase II; fatty acyl-coenzyme A synthetase; long-chain acyl-coenzyme A synthetase; FAA1

Product Information

Source	Microorganism
Form	White powder, lyophilized
EC Number	EC 6.2.1.3
CAS No.	9013-18-7
Molecular Weight	63 kDa (SDS-PAGE)
Activity	>20U/mg protein
Isoelectric point	7.5
pH Stability	6.5~7.5 (25°C, 18hr)
Optimum pH	7.5
Thermal stability	< 45°C (pH 7.5, 10min)
Optimum temperature	37°C
Michaelis Constant	1.4×10^-5 M(oleic acid) 1.9×10^-4 M(CoA) 1.9×10^-5 M(ATP)
Inhibitors	Ag+, Hg2+, Zn2+, Cu2+, Fe3+
Unit Definition	One unit will convert one micromole of fatty acid to acyl-CoAper min at pH 7.5 at 37°C.
Notes	INTENDED FOR RESEARCH USE ONLY, NOT FOR USE IN HUMAN, THERAPEUTIC OR DIAGNOSTIC APPLICATIONS.

Storage and Shipping Information

Storage	Store at -20°C.