

Acyl-CoA synthetase from Microorganism

Cat. No. NATE-1712

Lot. No. (See product label)

Introduction

Description Acetylcoenzyme A synthetase (ACS, EC 6.2.1.3)catalyzes the formation of acetyl coenzyme A with free

fatty acids and coenzyme A. The ACS provided by our company is gene recombinant protein. It is of high

purity and good activity.

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

63 kDa (SDS-PAGE)

Weight

Activity >20U/mg protein

Isoelectric

7.5

point

pH Stability 6.5~7.5 (25°C, 18hr)

Optimum pH 7.5

Thermal stability

< 45°C (pH 7.5, 10min)

Optimum

37°C

temperature

Michaelis

1.4×10^-5 M(oleic acid) 1.9×10^-4 M(CoA) 1.9×10^-5 M(ATP)

Constant

Inhibitors Ag+, Hg2+, Zn2+, Cu2+, Fe3+

Unit

One unit will convert one micromole of fatty acid to acyl-CoAper min at pH 7.5 at 37°C.

Definition

Notes INTENDED FOR RESEARCH USE ONLY, NOT FOR USE IN HUMAN, THERAPEUTIC OR DIAGNOSTIC

APPLICATIONS.

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Storage

Store at -20°C.