

Acyl-CoA synthetase from Microorganism

Product Information

Cat#	NATE-1712
Abbr	ACS (Microorganism)
Similar	ACS3
Source	Microorganism
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.
Form	White powder, lyophilized
Enzyme Commission Number	EC 6.2.1.3
Activity	>20U/mg protein
CAS No.	9013-18-7
Molecular Weight	63 kDa (SDS-PAGE)
Isoelectric point	7.5
pH Stability	6.5~7.5 (25°C, 18hr)
Michaelis Constant	1.4×10 ⁻⁵ M(oleic acid) 1.9×10 ⁻⁴ M(CoA) 1.9×10 ⁻⁵ M(ATP)
Unit Definition	One unit will convert one micromole of fatty acid to acyl-CoAper min at pH 7.5 at 37°C.
Optimum pH	7.5
Optimum temperature	37°C

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Thermal stability	< 45°C (pH 7.5, 10min)
Storage	Store at -20°C.
Inhibitors	Ag ⁺ , Hg ²⁺ , Zn ²⁺ , Cu ²⁺ , Fe ³⁺
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