



Acyl-CoA synthetase from Microorganism

Product Information

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| 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 |



Creative Enzymes

Diagnostic Enzymes

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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 |