



Creative Enzymes

Diagnostic Enzymes

High Purity Succinyl Coenzyme A Synthetase

Product Information

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| Cat# | DIA-544 |
| Source | Prokaryote |
| Description | High purity recombinant succinyl-CoA synthetase from prokaryote for use in research, biochemical enzyme assays and in vitro diagnostic analysis. |
| Form | Suspension |
| CAS No. | 9080-33-5 |
| Activity | ~ 9 U/mg (25 °C, pH 8.4 on succinic acid) |
| Unit Definition | One unit of succinyl-CoA synthetase activity is defined as the amount of enzyme required to release one μ mole of succinyl CoA from succinic acid (5.8 mM) per minute in the presence of NADH and Coenzyme A in Glycylglycine buffer (34 mM), pH 8.4 at 25 °C. |
| Storage | 2–8 °C |
| Synonyms | Succinate-CoA ligase (ADP-forming); succinate:CoA ligase (ADP-forming) |
| Enzyme Commission Number | EC 6.2.1.5 |
| Stability | > 1 year under recommended storage conditions |
| Optimum pH | 8.4 |
| Optimum temperature | 25 °C |
| Buffer | 3.2 M ammonium sulphate |
| Applications | Applications for the measurement of succinic acid in the clinical chemistry, food, wine and dairy industries. |
| Concentration | ~ 220 U/mL |

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Specificity

Catalyses the reaction: $\text{ATP} + \text{succinate} + \text{CoA} = \text{ADP} + \text{phosphate} + \text{succinyl-CoA}$.
