Recombinant E. coli sucC Protein, His-tagged

Cat. No. sucC-187E **Lot. No.** (See product label)

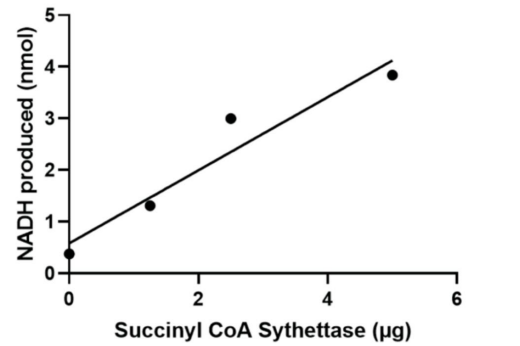
SPECIFICATION

Product Overview	Active E. coli (strain K12) C-terminal His-tagged Succinyl-CoA synthetase enzyme purified from E. coli.
Species	E.coli
Source	E.coli
Description	Succinyl-CoA synthetase from E. coli is responsible for the coupled hydrolysis of succinyl-CoA to the production of ATP (or GTP) in the substrate-level phosphorylation step of the citric acid cycle (TCA). This enzyme complex is formed as a heterotetramer, α2β2, where the two α subunits each contain the coenzyme A and phosphate binding sites, and the two β subunits each contain the succinate binding sites and provide nucleotide binding specificity. This enzyme is Mg2+-dependent.
Molecular Mass	29.8 kDa (α), 41.4 kDa (β)
Purity	≥85% estimated by SDS-PAGE
Unit Definition	One unit is defined as the amount of enzyme required to produce 1 nmol NADH per minute at 25 centigrade in 34 mM Glycylglycine buffer, pH 8.4, 3.4 mM Magnesium Chloride, 1.2 mM ATP, 0.89 mM Coenzyme A, 5.8 mM Succinic acid, 4.1 U/mL pyruvate kinase, 3.4 U/mL Lactic Dehydrogenase.
Stability	≥ 1 year

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

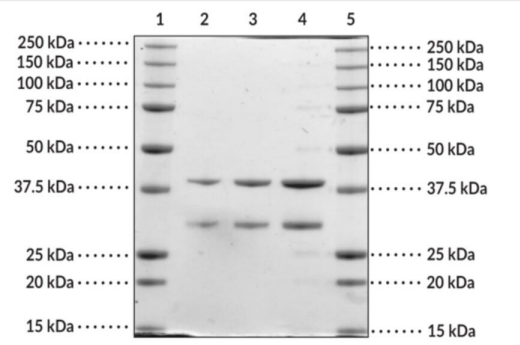
Storage	At -80 centigrade (as supplied); avoid freeze/thaw cycles by storing protein in aliquots
Storage Buffer	50 mM HEPES, pH 8.0, 150 mM sodium chloride, 20% glycerol

GENE INFORMATION

Gene Name	sucC succinyl-CoA synthetase subunit beta [Escherichia coli str. K-12 substr. MG1655]
Official Symbol	sucC
Synonyms	sucC; succinyl-CoA synthetase subunit beta; ECK0716; succinyl-CoA synthetase subunit beta; EC 6.2.1.5
Gene ID	945312
Protein Refseq	NP_415256
UniProt ID	P0A836
Succinyl CoA Synthetase Activity	

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

SDS-PAGE Analysis of Succinyl-CoA synthetase



Lane 1: MW Markers

Lane 2: Succinyl-CoA synthetase (1 μg)

Lane 3: Succinyl-CoA synthetase (2 μg)

Lane 4: Succinyl-CoA synthetase (4 μg)

Lane 5: MW Markers

Tel: 1-631-559-9269 1-516-512-3133

Email: info@creative-biomart.com Fax: 1-631-938-8127

45-1 Ramsey Road, Shirley, NY 11967, USA