

Recombinant Human SUCLA2 Protein, His-tagged

Cat. No. SUCLA2-001H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human SUCLA2 protein with a C-terminal His-tag was expressed in E.coli
Species	Human
Source	E.coli
Description	Succinyl-CoA synthetase (SCS) is a mitochondrial matrix enzyme that acts as a heterodimer, being composed of an invariant alpha subunit and a substrate-specific beta subunit. The protein encoded by this gene is an ATP-specific SCS beta subunit that dimerizes with the SCS alpha subunit to form SCS-A, an essential component of the tricarboxylic acid cycle. SCS-A hydrolyzes ATP to convert succinate to succinyl-CoA. Defects in this gene are a cause of myopathic mitochondrial DNA depletion syndrome. A pseudogene of this gene has been found on chromosome 6.
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 37 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	≥ 6 months

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Storage	-80 centigrade
Storage Buffer	50 mM HEPES, pH 8.0, 150 mM sodium chloride, 20% glycerol
GENE INFORMATION	
Gene Name	SUCLA2 succinate-CoA ligase ADP-forming subunit beta [Homo sapiens (human)]
Official Symbol	SUCLA2
Synonyms	SUCLA2; succinate-CoA ligase ADP-forming subunit beta; A-SCS; A-BETA; MTDP5; LINC00444; SCS-betaA; succinate--CoA ligase [ADP-forming] subunit beta, mitochondrial; ATP-specific succinyl-CoA synthetase subunit beta; ATP-specific succinyl-CoA synthetase, beta subunit; long intergenic non-protein coding RNA 444; mitochondrial succinyl-CoA ligase [ADP-forming] subunit beta; renal carcinoma antigen NY-REN-39; succinate-CoA ligase ADP-forming beta subunit; succinate-CoA ligase beta subunit; succinyl-CoA ligase [ADP-forming] subunit beta, mitochondrial; succinyl-CoA synthetase beta-A chain; EC 6.2.1.5
Gene ID	8803
mRNA Refseq	NM_003850
Protein Refseq	NP_003841
MIM	603921
UniProt ID	P0A836
Succinyl CoA synthetase Activity	

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**SDS-PAGE Analysis
of SUCLA2**

Lane 1: MW Markers

Lane 2: Succinyl-CoA synthetase (1 g)

Lane 3: Succinyl-CoA synthetase (2 g)

Lane 4: Succinyl-CoA synthetase (4 g)

Lane 5: MW Markers

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