

Recombinant Human SUCLA2 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. SUCLA2-4800H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	SUCLA2 MS Standard C13 and N15-labeled recombinant protein (NP_003841) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
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	50.3 kDa
AA Sequence	MAASMFYGRVLVAVATLRNHRPRTAQRAAAQVLGSSGLFNNHGLQVQQQQQRNLSL HEYMSMELLQEAGVSVPKGYVAKSPDEAYAIKKLGSKDVVIKAQVLAGGRGKGT ESGLKGGVKIVFSPEEAKAVSSQMIGKKLFTKQTGEKGRICNQVLVCERKYPRREYY FAITMERSFQGPVLIGSSHGGVNIEDVAAESPEAIIKEPIDIEEGIKKEQALQLAQKMG FPPNIVESAAENMVKLYSLFLKYDATMIEINPMVEDSDGAVLCMDAKINFDSNSAYRQ KKIFDLQDWTQEDERDKDAAKANLNYIGLDGNIGCLVNGAGLAMATMDIIKLHGGTP

 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

ANFLDVGGGATVHQVTEAFKLITSDKKVLAILVNIFGGIMRCDVIAQGIVMAVKDLEIKI
 PVVRLQGTRVDDAKALIADSGLKILACDDLDEAARMVVKLSEIVTLAKQAHVDVKFQ
 LPITRTRPLEQKLISEEDLAANDILDYKDDDDKV

Purity > 80% as determined by SDS-PAGE and Coomassie blue staining

Stability Stable for 3 months from receipt of products under proper storage and handling conditions.

Storage Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

Concentration 50 µg/mL as determined by BCA

Storage Buffer 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

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; MTDP55; 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](#)

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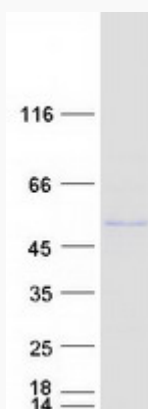
mRNA Refseq NM_003850

Protein Refseq NP_003841

MIM 603921

UniProt ID Q9P2R7

SDS-PAGE



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