

Recombinant Full Length Human SUCLA2 Protein, C-Flag-tagged

Cat. No. SUCLA2-1717HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human SUCLA2 Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
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.
Form	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Molecular Mass	44.5 kDa
AA Sequence	MAASMFYGRLVAVATLRNHRPRTAQRAAAQVLGSSGLFNNHGLQVQQQQQRNLSL HEYMSMELLQEAGVS VPKGYYAKSPDEAYAIKKLGSKDVVIKAQVLGGGRGKGT ESGLKGGVKIVFSPEEAKAVSSQMIGKKL FTKQTGEKGRICNQVLVCERKYPRREY YFAITMERSFQGPVLIGSSHGGVNIEDVAAESPEAIKEPIDI EEGIKKEQALQLAQKM GFPPNIVESAAENMVKLYSLFLKYDATMIEINPMVEDSDGAVLCMDAKINFDSN SAY

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RQKKIFDLQDWTQEDERDKDAAKANLNYIGLDGNIGCLVNGAGLAMATMDIIKLHGG
 TPANFLDVGG GATVHQVTEAFKLITSDKKVLAILVNIFGGIMRCDVIAQGIVMAVKDL
 EIKIPVVVRLQGTRVDDAKALI
 ADSGLKILACDDLDEAARMVVKLSEIVTLAKQAHVDVKFQLPITRTRPLEQKLISEEDL
 AANDILDYKDDDDKV

Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining.
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade.
Concentration	>50 ug/mL as determined by microplate BCA method.
Preparation	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Protein Pathways	Citrate cycle (TCA cycle), Metabolic pathways, Propanoate metabolism
Full Length	Full L.

GENE INFORMATION

Gene Name	SUCLA2 succinate-CoA ligase ADP-forming subunit beta [Homo sapiens (human)]
Official Symbol	SUCLA2
Synonyms	A-SCS; A-BETA; MTDPS5; LINC00444; SCS-betaA
Gene ID	8803

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mRNA Refseq	NM_003850.3
Protein Refseq	NP_003841.1
MIM	603921
UniProt ID	Q9P2R7



Coomassie blue staining of purified SUCLA2 protein.