

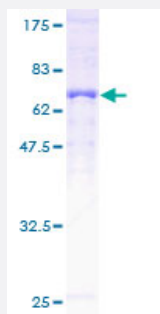
Full-Length

SUCLA2 (Human) Recombinant Protein (P01)

Catalog # H00008803-P01

Size 25 ug, 10 ug

Applications



Specification

Product Description

Human SUCLA2 full-length ORF (AAH27587, 1 a.a. - 463 a.a.) recombinant protein with GST-tag at N-terminal.

Sequence

MAASMFYGRLLVAVATLRNHRPRTAQRAAAQVLGSSGLFNNHGLQVQQQQQRNLSLHEYMSMEL
LQEAGVSVPKGYVAKSPDEAYAIKKLGSKDVVKAQVLGGGRGKGTFSGLKGGVKMFSPPEA
KAVSSQMIGKKLFTKQTGEKGRICNQLVCERKYPRREYFAITMERSFQGPVLIGSSHGGVNIED
VAAESPEAIKEPIDIEEGIKKEQALQLAQKMGFPPNIVESAAENMVKLYSLFLKYDATMIEINPMVE
DSDGAVLCMDAKINFDSNSAYRQKKIFDLQDWTQEDERDKDAKANLNYGLDGNIGCLVNGAGL
AMATMDIILKHGGTPANFLDVGGGATVHQVTEAFKLITSDKKVLAILVNIFGGIMRCDVIAQGIVMAV
KDLEIKIPVVVRLQGTRVDDAKALIADSGLKILACDDLDEAARMVVKLSEIVTLAKQAHVDVKFQLP
I

Host

Wheat Germ (in vitro)

Theoretical MW (kDa)

76.67

Interspecies Antigen Sequence

Mouse (91); Rat (88)

Preparation Method

[in vitro wheat germ expression system](#)

Purification

Glutathione Sepharose 4 Fast Flow

Quality Control Testing

12.5% SDS-PAGE Stained with Coomassie Blue.

Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
Storage Instruction	Store at -80°C. Aliquot to avoid repeated freezing and thawing.
Note	Best use within three months from the date of receipt of this protein.

Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

Gene Info — SUCLA2

Entrez GeneID	8803
GeneBank Accession#	BC027587
Protein Accession#	AAH27587
Gene Name	SUCLA2
Gene Alias	A-BETA, SCS-betaA
Gene Description	succinate-CoA ligase, ADP-forming, beta subunit
Omim ID	251880 603921
Gene Ontology	Hyperlink
Gene Summary	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. [provided by RefSeq]
Other Designations	ATP-specific succinyl-CoA synthetase, beta subunit OTTHUMP00000018384 renal carcinoma antigen NY-REN-39

Pathway

- [Biosynthesis of alkaloids derived from histidine and purine](#)
- [Biosynthesis of alkaloids derived from ornithine](#)
- [Biosynthesis of alkaloids derived from shikimate pathway](#)
- [Biosynthesis of alkaloids derived from terpenoid and polyketide](#)
- [Biosynthesis of phenylpropanoids](#)
- [Biosynthesis of plant hormones](#)
- [Biosynthesis of terpenoids and steroids](#)
- [Citrate cycle \(TCA cycle\)](#)
- [Metabolic pathways](#)
- [Propanoate metabolism](#)