

Product datasheet for PH305212

SUCLA2 (NM_003850) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	SUCLA2 MS Standard C13 and N15-labeled recombinant protein (NP_003841)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC205212
Predicted MW:	50.3 kDa
Protein Sequence:	>RC205212 protein sequence Red=Cloning site Green=Tags(s)

MAASMFYGRLLVAVATLRNHRPRTAQRAAAQVLGSSGLFNNHGLQVQQQQQRNLSLHEYMSMELLQEAGVS
VPKGYVAKSPDEAYAI AKKLGSKDVV IKAQVL AGGRGKGT FESGLKGGVKIVFSPEEAKAVSSQMIGKKL
FTKQTGEKGRICNQVLVCERKYPRREYYFAITMERSFQGPVLIGSSHGGVNI EDVAAESPEAIIKEPIDI
EEGIKKEQALQLAQKMGFPPNIVESAAENMVKLYSLFLKYDATMIEINPMVEDSDGAVLCMDAKINFDSN
SAYRQKKIFDLQDWTQEDERDKDAAKANLNYIGLDGNIGCLVNGAGLAMATMDI IKLHGGTPANFLDVG
GATVHQVTEAFKLITSDKKVLA I LVNIFGGIMRCDVIAQGI VMAVKDLEIKIPVVVRLQGTRVDDAKALI
ADSGLKILACDDLDEAARMVVKLSEIVTLAKQAHVDVKFQLPI

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- ¹³ C ₆ , ¹⁵ N ₄]-L-Arginine and [U- ¹³ C ₆ , ¹⁵ N ₂]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	<u>NP_003841</u>
RefSeq Size:	2182
RefSeq ORF:	1389
Synonyms:	A-BETA; A-SCS; LINC00444; MTDPS5; SCS-betaA



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Locus ID: 8803

UniProt ID: [Q9P2R7](#), [E5KS60](#), [Q9Y4T0](#)

Cytogenetics: 13q14.2

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, Jul 2008]

Protein Pathways: Citrate cycle (TCA cycle), Metabolic pathways, Propanoate metabolism

Product images:



Coomassie blue staining of purified SUCLA2 protein (Cat# [TP305212]). The protein was produced from HEK293T cells transfected with SUCLA2 cDNA clone (Cat# [RC205212]) using MegaTran 2.0 (Cat# [TT210002]).