

# Recombinant Human OXCT1 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. OXCT1-1903H Lot. No. (See product label)

## SPECIFICATION

### Product Overview

OXCT1 MS Standard C13 and N15-labeled recombinant protein (NP\_000427) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.

### Species

Human

### Source

HEK293

### Description

This gene encodes a member of the 3-oxoacid CoA-transferase gene family. The encoded protein is a homodimeric mitochondrial matrix enzyme that plays a central role in extrahepatic ketone body catabolism by catalyzing the reversible transfer of coenzyme A from succinyl-CoA to acetoacetate. Mutations in this gene are associated with succinyl CoA:3-oxoacid CoA transferase deficiency.

### Molecular Mass

56.2 kDa

### AA Sequence

MAALKLLSSGLRLCASARGSGATWYKGCVCSFSTSAHRHTKFYTDTPVEAVKDIPDG  
 ATVLVGGFGLCGIPENLIDALLKTGVKGLTAVSNNAGVDNFGGLLLRSKQIKRMVSS  
 YVGENAEFERQYLSGELEVELTPQGTLAERIRAGGAGVPAFYTPPTGYGTLVQEGGS  
 PIKYNKDGSVAIASKPREVREFNGQHFILEEAITGDFALVKAWKADRAGNVIFRKSAR  
 NFNLPCKAAETTVEVEEIVDIGAFAPEDIHIPQIYVHRLIKGEKYEKRIERLSIRKEG  
 DGEAKSAKPGDDVRERIIKRAALEFEDGMYANLGIGIPLLASNFI SPNITVHLQSENGV  
 LGLGPYPRQHEADADLINAGKETVTILPGASFFSSDES FAMIRGGHV DLTMLGAMQV  
 SKYGD LANWMIPGKMVKGMGGAMD LVSSAKTKVVV TMEHSAKGN AHKIMEKCTLP

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LTGKQCVNRIITEKAVFDVDKKGGLTLIELWEGLTVDDVQKSTGCDFAVSPKLMPMQ  
QIANTRTRPLEQKLISEEDLAANDILDYKDDDDKV

**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** OXCT1 3-oxoacid CoA transferase 1 [ Homo sapiens (human) ]

**Official Symbol** OXCT1

**Synonyms** OXCT1; 3-oxoacid CoA transferase 1; 3 oxoacid CoA transferase, OXCT; succinyl-CoA:3-ketoacid-coenzyme A transferase 1, mitochondrial; SCOT; SCOT-s; 3-oxoacid-CoA transferase 1; succinyl CoA:3-oxoacid CoA transferase; succinyl-CoA:3-ketoacid-CoA transferase; somatic-type succinyl CoA:3-oxoacid CoA-transferase; somatic-type succinyl-CoA:3-oxoacid-CoA-transferase; OXCT;

**Gene ID** 5019

**mRNA Refseq** NM\_000436

**Protein Refseq** NP\_000427

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**MIM** 601424

**UniProt ID** P55809

**SDS-PAGE**



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