

Recombinant Human OXCT1

Cat. No. OXCT1-30531TH Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant fragment of Human OXCT1 with a N terminal proprietary tag: predicted molecular weight 31.57 kDa.
Species	Human
Source	Wheat Germ
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 Weight	31.570kDa inclusive of tags
Tissue specificity	Abundant in heart, followed in order by kidney, brain, and muscle, whereas in liver it is undetectable; also detectable in leukocytes and fibroblasts.
Form	Liquid
Purity	Proprietary Purification
Storage buffer	pH: 8.00 Constituents: 0.3% Glutathione, 0.79% Tris HCl
Storage	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw

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cycles.

Sequences of amino acids

DALLKTGVKGLTAVSNNAGVDNFGGLGLLLRSKQIKRMVSSYVGENAEFERQYLS

Sequence Similarities

Belongs to the 3-oxoacid CoA-transferase family.

GENE INFORMATION

Gene Name

OXCT1 3-oxoacid CoA transferase 1 [Homo sapiens]

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;

Gene ID

5019

mRNA Refseq

NM_000436

Protein Refseq

NP_000427

MIM

601424

Uniprot ID

P55809

Chromosome Location

5p13

Pathway

Butanoate metabolism, organism-specific biosystem; Butanoate metabolism, conserved biosystem; Fatty acid, triacylglycerol, and ketone body metabolism,

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organism-specific biosystem; Ketone body metabolism, organism-specific biosystem;
Metabolism of lipids and lipoproteins, organism-specific biosystem;

Function

3-oxoacid CoA-transferase activity; 3-oxoacid CoA-transferase activity; protein
homodimerization activity; transferase activity;

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