

## OXCT1 Protein, Human, Recombinant (His)

## General Information

Synonyms:	Succinyl-CoA:3-ketoacid coenzyme A transferase 1, mitochondrial;OXCT;mitochondrial; Somatic-type succinyl-CoA:3-oxoacid CoA-transferase (SCOT-s);Succinyl-CoA:3-oxoacid CoA transferase;OXCT1;SCOT;3-oxoacid CoA-transferase 1
Protein Construction:	40-520 aa
Species:	Human
Expression Host:	E. coli
Accession:	P55809
Molecular Weight:	56.1 kDa (predicted)
AA Sequence:	TKFYTDPVEAVKDIPDGATVLVGGFGLCGIPENLIDALLKTGVKGLTAVSNNAGVDNFGLGLLLRSKQIKRMVS SYVGENAEEFERQYLSGELEVELTPQGTLAERIRAGGAGVPAFYTPPTGYGTLVQEGGSPIKYNKDGSAIASKPR EVREFNGQHFILEEAITGDFALVKAWKADRAGNVIFRKSARNFNLMCKAAETTVEVEEIVDIGAFAPEDIHIP QIYVHRLIKGEKEYEKRIERLSIRKEGDGEAKSAKPGDDVREIRIKRAALEFEDGMYANLIGIPLLASNISPNTV HLQSENGVLGLGPYPRQHEADADLINAGKETVTILPGASFFSSDEFAMIRGGHVDLTMGLAMQVSKYGDLA NWMIPGKMGVKGMMGAMDLVSSAKTKVVVTMEHSAKGNNAHKIMEKCTLPLTGKQCVNRIITEKAVFDVDDKKK GLTLIELWEGLTVDDVQKSTGCDFAVSPKLMMPMQIAN

## QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	> 90% as determined by SDS-PAGE.
Endotoxin:	< 1.0 EU/μg of the protein as determined by the LAL method.
Formulation:	Tris-based buffer, 50% glycerol

## Preparation and Storage

## Reconstitution:

Reconstitute the lyophilized protein in distilled water. The product concentration should not be less than 100 μg/ml. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

## Stability &amp; Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

*Actual storage temperature shall be subject to the COA.*

## Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

**Protein Background**

Key enzyme for ketone body catabolism. Transfers the CoA moiety from succinate to acetoacetate. Formation of the enzyme-CoA intermediate proceeds via an unstable anhydride species formed between the carboxylate groups of the enzyme and substrate.

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