

## Product datasheet for PH303764

### OXCT1 (NM\_000436) Human Mass Spec Standard

#### Product data:

Product Type:	Mass Spec Standards
Description:	OXCT1 MS Standard C13 and N15-labeled recombinant protein (NP_000427)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC203764
Predicted MW:	56.2 kDa
Protein Sequence:	>RC203764 protein sequence Red=Cloning site Green=Tags(s)

MAALKLLSSGLRLCASARGSGATWYKGCVCSFSTSAHRHTKFYTDVPEAVKDIPDGATVLVGGFGLCGIP  
ENLIDALLKTGVKGLTAVSNNAGVDNFGLLLRKQIKRMVSSYVGENAEFERQYLSGELEVELTPQGT  
LAERIRAGGAGVPAFYTPTGYGTLVQEGGSPIKYNKDGSAIASKPREVREFNGQHFIEEAITGDFALV  
KAWKADRAGNVIFRKSARNFNLPMCKAAETTVEVEEIVDIGAFAPEDIHIPQIYVHRLIKGEKYEKRIE  
RLSIRKEGDGEAKSAKPGDDVRERIIKRAALEFEDGMYANLGIGIPLLASNFISPNTVHLQSENGVLGL  
GPYPRQHEADADLINAGKETVTILPGASFFSSDESFAMIRGGHVDLTMGAMQVSKYGDLANWMIPGKMV  
KGMGGAMDLVSSAKTKVVVTMEHSAKGNNAHKIMEKCTPLPLTGKQCVNRIITEKAVFDVDDKKKGLTIELW  
EGLTVDDVQKSTGCDFAVSPKLMMPMQIAN

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

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- <sup>13</sup> C <sub>6</sub> , <sup>15</sup> N <sub>4</sub> ]-L-Arginine and [U- <sup>13</sup> C <sub>6</sub> , <sup>15</sup> N <sub>2</sub> ]-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_000427</u>
RefSeq Size:	3572
RefSeq ORF:	1560



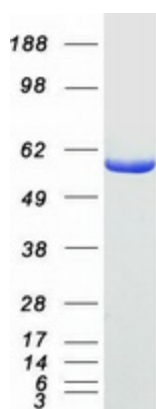
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**Synonyms:** OXCT; SCOT  
**Locus ID:** 5019  
**UniProt ID:** [P55809](#), [A0A024R040](#)  
**Cytogenetics:** 5p13.1

**Summary:** 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. [provided by RefSeq, Jul 2008]

**Protein Pathways:** Butanoate metabolism, Synthesis and degradation of ketone bodies, Valine, leucine and isoleucine degradation

### Product images:



Coomassie blue staining of purified OXCT1 protein (Cat# [TP303764]). The protein was produced from HEK293T cells transfected with OXCT1 cDNA clone (Cat# [RC203764]) using MegaTran 2.0 (Cat# [TT210002]).