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

**Cat. No.** CROT-5783H **Lot. No.** (See product label)

## SPECIFICATION

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| **Product Overview** | CROT MS Standard C13 and N15-labeled recombinant protein (NP_066974) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells. |
| **Species** | Human |
| **Source** | HEK293 |
| **Description** | This gene encodes a member of the carnitine/choline acetyltransferase family. The encoded protein converts 4,8-dimethylnonanoyl-CoA to its corresponding carnitine ester. This transesterification occurs in the peroxisome and is necessary for transport of medium- and long- chain acyl-CoA molecules out of the peroxisome to the cytosol and mitochondria. The protein thus plays a role in lipid metabolism and fatty acid beta-oxidation. Alternatively spliced transcript variants have been described. |
| **Molecular Mass** | 70.2 kDa |
| **AA Sequence** | MENQLAKSTEERTFQYQDSLPSLPVPSLEESLKKYLESVKPFANQEEYKKTEEIVQK FQSGIGEKLHQKLLERAKGKRNWLEEWWLNVAYLDVRIPSQLNVNFAGPAAHFEHY WPPKEGTQLERGSITLWHNLNYWQLLRKEKVPVHKVGNTPLDMNQFRMLFSTCKV PGITRDSIMNYFRTESEGRSPNHIVVLCRGRAFVFDVIHEGCLVTPPELLRQLTYIHKK CHSEPDGPGIAALTSEERTRWAKAREYLIGLDPENLALLEKIQSSLLVYSMEDSSPHV TPEDYSEIIAAILIGDPTVRWGDKSYNLISFSNGVFGCNCDHAPFDAMIMVNISYYVDE KIFQNEGRWKGSEKVRDIPLPEELIFIVDEKVLNDINQAKAQYLREASDLQIAAYAFTS |

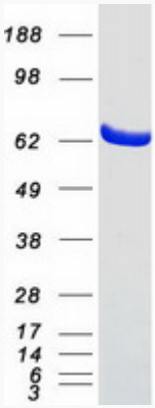
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|---|---|
| | FGKKLTKNKMLHPDTFIQLALQLAYYRLHGHPGCCYETAMTRHFYHGRTETMRSCT VEAVRWCQSMQDPSVNLRERQQKMLQAFAKHNKMMKDCSAGKGFDRHLLGLLLIA KEEGLPVPELFTDPLFSKSGGGGNFVLSTSLVGYLRVQGVVVPMVHNGYGFFYHIR DDRFVVACSAWKSCPETDAEKLVQLTFCAFHDMIQLMNSTHLTRTRPLEQKLISEED LAANDILDYKDDDDKV |
| **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

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| **Gene Name** | CROT carnitine O-octanoyltransferase [ Homo sapiens (human) ] |
| **Official Symbol** | CROT |
| **Synonyms** | CROT; carnitine O-octanoyltransferase; peroxisomal carnitine O-octanoyltransferase; COT; peroxisomal carnitine acyltransferase; |
| **Gene ID** | 54677 |
| **mRNA Refseq** | NM_021151 |
| **Protein Refseq** | NP_066974 |

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| **MIM** | 606090 |
| **UniProt ID** | Q9UKG9 |
| **SDS-PAGE** |  |



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