

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

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

## SPECIFICATION

<b>Product Overview</b>	CROT MS Standard C13 and N15-labeled recombinant protein (NP_066974) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
<b>Species</b>	Human
<b>Source</b>	HEK293
<b>Description</b>	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.
<b>Molecular Mass</b>	70.2 kDa
<b>AA Sequence</b>	MENQLAKSTEERTFQYQDSLPSLPVPSLEESLKKYLESVKPFANQEEYKKTEEIVQK FQSGIGEKHLHQKLLERAKGKRNWLEEWLNVAYLDVRIPSQLNVNFAGPAAHFEHY WPPKEGTQLERGSITLWHNLNYWQLLRKEKVPVHKVGNTPLDMNQFRMLFSTCKV PGITRDSIMNYFRTESEGRSPNHIVLCRGRAVFDVIHEGCLVTPPELLRQLTYIHKK CHSEPDGPGIAALTSEERTRWAKAREYLIGLDPENLALLEKIQSSLLVYSMEDSSPHV TPEDYSEIIAAILIGDPTVRWGDKSYNLISFSNGVFGCNCDHAPFDAMIMVNISYYVDE KIFQNEGRWKGSEKVRDIPLPEELIFIVDEKVLNDINQAKAQYLREASDLQIAAYAFTS

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FGKKLTKNKMLHPDTFIQLALQLAYYRLHGHPGCCYETAMTRHFYHGRTETMRSC  
 VEAVRWCQSMQDPSVNLRRERQQKMLQAFKHNKMMKDCSAGKGFDRHLLGLLLIA  
 KEEGLPVPELFTDPLFSKSGGGGNFVLSTSLVGYL RVQGVVPMVHNGYGFFYHIR  
 DDRFVVACSAWKSCPETAELVQLTFCAFHDMIQLMNSTHLTRTRPLEQKLISEED  
 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

**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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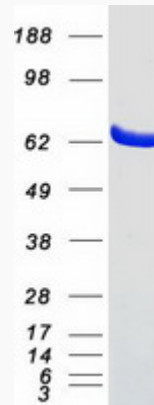
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**MIM** 606090

**UniProt ID** Q9UKG9

**SDS-PAGE**



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