

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

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

SPECIFICATION

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 FQSGIGEKHLHQKLLERAKGKRNLWEEWWLNVAYLDVRIPSQLNVNFAGPAAHFEHY WPPKEGTQLERGSITLWHNLNYWQLLRKEKVPVHKVGNTPLDMNQFRMLFSTCKV PGITRDSIMNYFRTESEGRSPNHIVVLCRGRAVFVDVIHEGCLVTPPELLRQLTYIHKK CHSEPDGPGIAALTSEERTRWAKAREYLIGLDPENLALLEKIQSSLLVYSMEDSSPHV TPEDYSEIIAAILIGDPTVRWGDKSYNLISFSNGVFGCNCDHAPFDAMIMVNISYYVDE KIFQNEGRWKGSEKVRDIPLPEELIFIVDEKVLNDINQAKAQYLREASDLQIAAYAFTS

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FGKKLTKNKMLHPDTFIQLALQLAYYRLHGHPGCCYETAMTRHFYHGRTETMRSC
VEAVRWCQSMQDPSVNLRRERQQKMLQAFKHNKMMKDCSAGKGFDRHLLGLLLIA
KEEGLPVPELFTDPLFSKSGGGGNFVLSTSLVGYL RVQGVVPMVHNGYGFFYHIR
DDRFVVACSAWKSCPETDAEKL VQLTFCAFHDMIQLMNSTHLTRTRPLEQKLISEED
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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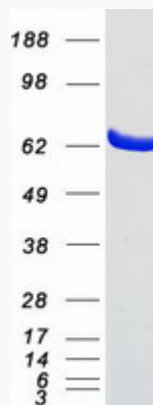
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MIM 606090

UniProt ID Q9UKG9

SDS-PAGE



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