

Recombinant Full Length Human CROT Protein, GST-tagged

Cat. No. CROT-2092HF **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human CROT full-length ORF (NP_066974.2, 1 a.a. - 612 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	In Vitro Cell Free System
ProteinLength	612 amino acids
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.[provided by RefSeq, Jan 2009]
Molecular Mass	96.6 kDa
AA Sequence	MENQLAKSTEERTFQYQDSLPSLPVPSLEESLKKYLESVKPFANQEEYKKTEEIVQK FQSGIGEKHLHQKLLERAKGKRNWLEEWLNVAYLDVRIPSQLNVNFAGPAAHFEHY WPPKEGTQLERGSITLWHNLNYWQLLRKEKVPVHKVGNTPLDMNQFRMLFSTCKV PGITRDSIMNYFRTESEGRSPNHIVVLCRGRAVFVDVIHEGCLVTPPELLRQLTYIHKK CHSEPDGPGIAALTSEERTRWAKAREYLIGLDPENLALLEKIQSSLLVYSMEDSSPHV TPEDYSEIIAAILIGDPTVRWGDKSYNLISFSNGVFGCNCDHAPFDAMIMVNISYYVDE

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KIFQNEGRWKGSEKVRDIPLPEELIFIVDEKVLNDINQAKAQYLREASDLQIAAYAFTS
 FGKKLTKNKMLHPDTFIQLALQLAYYRLHGHPGCCYETAMTRHFYHGRTETMRSC
 VEAVRWCQSMQDPSVNLRRERQQKMLQAFKHNKMMKDCSAGKGFDRHLLGLLLIA
 KEEGLPVPELFTDPLFSKSGGGGNFVLSTSLVGYLRVQGVVPMVHNGYGFFYHIR
 DDRFVVACSAWKSCPETDAEKLVLQTFCAFHDMIQLMNSTHL

Applications

Enzyme-linked Immunoabsorbent Assay
 Western Blot (Recombinant protein)
 Antibody Production
 Protein Array

Notes

Best use within three months from the date of receipt of this protein.

Storage

Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.

Storage Buffer

50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

GENE INFORMATION

Gene Name

CROT carnitine O-octanoyltransferase [Homo sapiens]

Official Symbol

CROT

Synonyms

CROT; carnitine O-octanoyltransferase; peroxisomal carnitine O-octanoyltransferase;
 COT; peroxisomal carnitine acyltransferase

Gene ID

54677

mRNA Refseq

NM_001143935

Protein Refseq

NP_001137407

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MIM	606090
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UniProt ID	Q9UKG9
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