

# Recombinant Full Length Human CROT Protein, GST-tagged

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

## SPECIFICATION

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

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KIFQNEGRWKGSEKVRDIPLPEELIFIVDEKVLNDINQAKAQYLREASDLQIAAYAFTS  
 FGKKLTKNKMLHPDTFIQLALQLAYYRLHGHPGCCYETAMTRHFYHGRTETMRSC  
 VEAVRWCQSMQDPSVNLRRERQQKMLQAFKHNKMMKDCSAGKGFDRHLLGLLLIA  
 KEEGLPVPELFTDPLFSKSGGGGNFVLSTSLVGYLRVQGVVPMVHNGYGFFYHIR  
 DDRFVVACSAWKSCPETDAEKLVLQTLTFCAFHDMIQLMNSTHL

**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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<b>MIM</b>	606090
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<b>UniProt ID</b>	Q9UKG9
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