

## Recombinant Human CROT Protein, GST-tagged

Cat. No. CROT-1902H 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** Wheat Germ

**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**

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MENQLAKSTEERTFQYQDSLPSLPVPSLEESLKKYLESVKPFANQEEYKKTEEIVQK
FQSGIGEKLHQKLLERAKGKRNWLEEWLNVAYLDVRIPSQLNVNFAGPAAHFEHY
WPPKEGTQLERGSITLWHNLNYWQLLRKEKVPVHKVGNTPLDMNQFRMLFSTCKV
PGITRDSIMNYFRTESEGRSPNHIVVLCRGRAFVFDVIHEGCLVTPPELLRQLTYIHKK
CHSEPDGPGIAALTSEERTRWAKAREYLIGLDPENLALLEKIQSSLLVYSMEDSSPHV
TPEDYSEIIAAILIGDPTVRWGDKSYNLISFSNGVFGCNCDHAPFDAMIMVNISYYVDE
KIFQNEGRWKGSEKVRDIPLPEELIFIVDEKVLNDINQAKAQYLREASDLQIAAYAFTS
    
```

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FGKKLTKNKMLHPDTFIQLALQLAYYRLHGHPGCCYETAMTRHFYHGRTETMRSC  
 VEAVRWCQSMQDPSVNLRRERQQKMLQAFKHNKMMKDCSAGKGFDRHLLGLLLIA  
 KEEGLPVPELFTDPLFSKSGGGGNFVLSTSLVGYLRVQGVVPMVHNGYGFFYHIR  
 DDRFVVACSAWKSCPETAELVQLTFCAFHDMIQLMNSTHL

<b>Applications</b>	Enzyme-linked Immunoabsorbent Assay Western Blot (Recombinant protein) Antibody Production Protein Array
<b>Notes</b>	Best use within three months from the date of receipt of this protein.
<b>Storage</b>	Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.
<b>Storage Buffer</b>	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

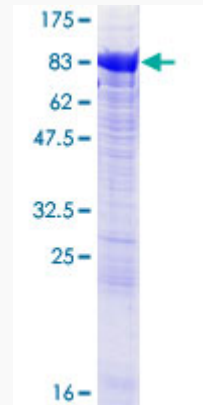
## GENE INFORMATION

<b>Gene Name</b>	<a href="#">CROT carnitine O-octanoyltransferase [ Homo sapiens ]</a>
<b>Official Symbol</b>	<a href="#">CROT</a>
<b>Synonyms</b>	CROT; carnitine O-octanoyltransferase; peroxisomal carnitine O-octanoyltransferase; COT; peroxisomal carnitine acyltransferase;
<b>Gene ID</b>	<a href="#">54677</a>
<b>mRNA Refseq</b>	<a href="#">NM_001143935</a>
<b>Protein Refseq</b>	<a href="#">NP_001137407</a>

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**MIM** 606090**UniProt ID** Q9UKG9**Quality Control  
Testing:**

12.5% SDS-PAGE Stained with Coomassie Blue.

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