

# Recombinant Full Length Human CRAT Protein, GST-tagged

Cat. No. CRAT-2256HF    Lot. No. (See product label)

## SPECIFICATION

<b>Product Overview</b>	Human CRAT full-length ORF ( NP_000746.2, 1 a.a. - 626 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>	626 amino acids
<b>Description</b>	This gene encodes carnitine O-acetyltransferase, a member of the carnitine acyltransferase family and a key metabolic pathway enzyme which plays an important role in energy homeostasis and fat metabolism. This enzyme catalyzes the reversible transfer of acyl groups from an acyl-CoA thioester to carnitine and regulates the ratio of acyl-CoA/CoA. It is found in both the mitochondria and the peroxisome. Alternative splicing results in transcript variants encoding different isoforms that may localize to different subcellular compartments. [provided by RefSeq, Oct 2016]
<b>Molecular Mass</b>	97.3 kDa
<b>AA Sequence</b>	MLAFAARTVVKPLGFLKPFSLMKASSRFKAHQDALPRLPVPPLQQSLDHYLKALQPI VSEEEWAHTKQLVDEFQASGGVGERLQKGLERRARKTENWLSEWWLKTAYLQYR QPVVIYSSPGVMLPKQDFVDLQGGQLRFAAKLIEGVLDKVMIDNETLPVEYLGKPL CMNQYYQILSSCRVPGPKQDTSNFSKTKKPPHITVVHNYQFFELDVYHSDGTPLT ADQIFVQLEKIWNSSLQTNKEPVGILTSNHRNSWAKAYNTLIKDKVNRDSVRSIQKSI FTVCLDATMPRVSEDEVYRSHVAGQMLHGGSRLNSGNRWFDKTLQFIVAEDGSCG

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LVYEHAAAEGPPIVTLDDYVIEYTKKPELVRSPMVPLPMPKKLRFNITPEIKSDIEKAK  
 QNLSIMIQLDITVMVFHHFGKDFPKSEKLSPDAFIQMALQLAYYRIYGQACATYESA  
 SLRMFHLGRTDTIRSASMDSLTFVKAMDDSSVTEHQKVELLRKAVQAHRGYTDRAI  
 RGEAFDRHLLGLKLQAIEDLVSMPIFMDTSYAIAMHFHLSTSQVPAKTDCVMFFGP  
 VVPDGYGVCYNPMEAHINFSL SAYNSCAETNAARLAHYLEKALLDMRALLQSHPR  
 KL

<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>	CRAT carnitine O-acetyltransferase [ Homo sapiens ]
<b>Official Symbol</b>	CRAT
<b>Synonyms</b>	CRAT; carnitine O-acetyltransferase; carnitine acetyltransferase; CAT1; CAT; carnitine acetylase
<b>Gene ID</b>	1384
<b>mRNA Refseq</b>	NM_000755

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**Protein Refseq** [NP\\_000746](#)

**MIM** [600184](#)

**UniProt ID** [P43155](#)

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