

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

Cat. No. CRAT-2141H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	CRAT MS Standard C13 and N15-labeled recombinant protein (NP_003994) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	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.
Molecular Mass	68.4 kDa
AA Sequence	MKASSRFKAHQDALPRLPVPPLQQSLDHYLKALQPIVSEEEWAHTKQLVDEFQASG GVGERLQKGLERRARKTENWLSEWWLKTAYLQYRQPVVIYSSPGVMLPKQDFVDL QGQLRFAAKLIEGVLDKVMIDNETLPVEYLGKPLCMNQYYQILSSCRVPGPKQDT VSNFSKTKKPPHITVVHNYQFFELDVYHSDGTPLTADQIFVQLEKIWNSSLQTNKEP VGILTSNHRNSWAKAYNTLIKDKVNRDSVRSIQKSIFTVCLDATMPRVSEDVYRSHV AGQMLHGGGSRNLNSGNRWFDKTLQFIVAEDGSCGLVYEHAAAEGPPIVTLDDYVIE

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YTKKPELVRSPMVPLPMPKKLRFNITPEIKSDIEKAKQNLSIMIQLDITVMVFHHFGK
 DFPKSEKLSPDAFIQMALQLAYYRIYGQACATYESASLRMFHLGRTDITRSASMDSL
 TFVKAMDDSSVTEHQKVELLRKAVQAHRGYTDRAIRGEAFDRHLLGLKLQAIEDLVS
 MPDIFMDTSYAIAMHFHLSTSQVPAKTDCVMFFGPPVDPDGYGVCYNPMEAHINFSL
 SAYNSCAETNAARLAHYLEKALLDMRALLQSHPRAKLTRTRPLEQKLISEEDLAANDI
 LDYKDDDDKV

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	CRAT carnitine O-acetyltransferase [Homo sapiens (human)]
Official Symbol	CRAT
Synonyms	CRAT; carnitine O-acetyltransferase; carnitine acetyltransferase; CAT1; CAT; carnitine acetylase;
Gene ID	1384
mRNA Refseq	NM_004003

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Protein Refseq NP_003994

MIM 600184

UniProt ID P43155

SDS-PAGE



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