

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	MKASSRFKAHQDALPRLVPPLQQLDHYLKALQPIVSEEEWAHTKQLVDEFQASG GVGERLQKGLERRARKTENWLSEWWLKTAYLQYRQPVVIYSSPGVMLPKQDFVDL QGQLRFAAKLIEGVLDKVMIDNETLPVEYLGKPLCMNQYYQILSSCRVPGPKQDT VSNFSKTKKPPHITVVHNYQFFELDVYHSDGTPLTADQIFVQLEKIWNSSLQTNKEP VGILTSNHRNSWAKAYNTLIKDKVNRDSVRSIQKSIFTVCLDATMPRVSEDVYRSHV AGQMLHGGGSRLNSGNRWFDKTLQFIVAEDGSCGLVYEHAAGPPIVTLLDYVIE

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YTKKPELVRSMPVPLPMPKKLRFNITPEIKSDIEKAKQNLSIMIQDLDTVMVFHHFGK
 DFPKSEKLSPDAFIQMALQLAYYRIYGQACATYESASLRMFHLGRTDTIRSASMDSL
 TFKAMDDSSVTEHQKVELLRKAVQAHRGYTDRAIRGEAFDRHLLGLKLQAIEDLVS
 MPDIFMDTSYAIAMHFHLSTSQVPAKTDCVMFFGPVVPDGYGVCYNPMEAHINFSL
 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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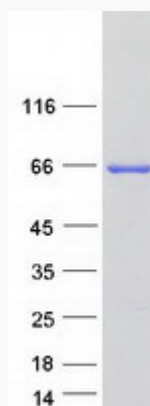
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Protein Refseq NP_003994

MIM 600184

UniProt ID P43155

SDS-PAGE



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