



# Recombinant Human Carnitine O-acetyltransferase (CRAT)

<b>Product Code</b>	CSB-EP005940HU
<b>Storage</b>	Store at -20°C, for extended storage, conserve at -20°C or -80°C.
<b>Uniprot No.</b>	P43155
<b>Product Type</b>	Recombinant Protein
<b>Immunogen Species</b>	Homo sapiens (Human)
<b>Purity</b>	>85% (SDS-PAGE)
<b>Sequence</b>	MLAFAARTVV KPLGFLKPFS LMKASSRFKA HQDALPRLPV PPLQQSLDHY LKALQPIVSE EEWAHTKQLV DEFQASGGVG ERLQKGLERR ARKTENWLSE WWLKTAYLQY RQPVVIYSSP GVMLPKQDFV DLQGQLRFAA KLIEGVLDKF VMIDNETLPV EYLGKPLCM NQYYQILSSC RVPGPKQDTV SNFSKTKKPP THITVVHNYQ FFELDVYHSD GTPLTADQIF VQLEKIWNSS LQTNKEPVGI LTSNHRNSWA KAYNTLIKDK VNRDSVRSIQ KSIFTVCLDA TMPRVSEDEVY RSHVAGQMLH GGG SRLNSGN RWFDKTLQFI VAEDGSCGLV YEHA AEGPP IVTLLDYVIE YTKKPELVRS PLVPLPMPKK LRFNITPEIK SDIEKAKQNL SIMIQDLIT VMVFHFGKD FPKSEKLSPD AFIQMALQLA YYRIYGQACA TYESASLRMF HLGRTDTIRS ASMDSLTFVK AMDDSSVTEH QKVELLRKAV QAHRGYTDRA IRGEAFDRHL LGLKLQAIED LVSMDFDMD TSYAIAMHFH LSTSQVPAKT DCVMFFGPVV PDGYGVCYNP MEAHINFSLS AYNSCAETNA ARLAHYLEKA LLD MRALLQS HPRAKL
<b>Source</b>	E.coli
<b>Target Names</b>	CRAT
<b>Protein Names</b>	Recommended name: Carnitine O-acetyltransferase Short name= Carnitine acetylase EC= 2.3.1.7 Alternative name(s): Carnitine acetyltransferase Short name= CAT Short name= CrAT
<b>Expression Region</b>	1-626
<b>Notes</b>	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
<b>Tag Info</b>	Tag type will be determined during the manufacturing process.
<b>Protein Length</b>	Full length protein
<b>Target Details</b>	This gene encodes carnitine acetyltransferase (CRAT), which is a key enzyme in the metabolic pathway in mitochondria, peroxisomes and endoplasmic reticulum. CRAT catalyzes the reversible transfer of acyl groups from an acyl-CoA thioester to carnitine and regulates the ratio of acylCoA/CoA in the subcellular compartments. Alternate splicing results in multiple transcript variants; additional transcript variants have been described, but their biological validity has not been determined.
<b>Reconstitution</b>	We recommend that this vial be briefly centrifuged prior to opening to bring the



contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

### Shelf Life

The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself.

Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.