



Recombinant Human Carnitine O-acetyltransferase (CRAT)

Product Code	CSB-EP005940HU-B
Storage	Store at -20°C, for extended storage, conserve at -20°C or -80°C.
Uniprot No.	P43155
Product Type	Recombinant Protein
Immunogen Species	Homo sapiens (Human)
Purity	>85% (SDS-PAGE)
Sequence	MLAFAARTVV KPLGFLKPFS LMKASSRFKA HQDALPRLPV PPLQQSLDHY LKALQPIVSE EEWAHTKQLV DEFQASGGVG ERLQKGLERR ARKTENWLSE WWLKTAYLQY RQPVVIYSSP GVMLPKQDFV DLQGQLRFAA KLIEGVLDKF VMIDNETLPV EYLGKPLCM NQYYQILSSC RVPGPKQDTV SNFSKTKKPP THITVVHNYQ FFELDVYHSD GTPLTADQIF VQLEKIWNSS LQTNKEPVG I LTSNHRNSWA KAYNTLIKDK VNRDSVRSIQ KSIFTVCLDA TmprVSEDVY 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 LVSM PDIFMD TSYAIAMHFH LSTSQVPAKT DCVMFFGPVV PDGYGVCYNP MEAHINFSL S AYNSCAETNA ARLAHYLEKA LLD MRALLQS HPRAKL
Source	E.coli
Target Names	CRAT
Protein Names	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
Expression Region	1-626
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	Tag type will be determined during the manufacturing process.
Protein Length	Full length protein
Target Details	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.
Reconstitution	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.