

Datasheet for ABIN7552892
CRAT Protein (AA 1-626) (His tag)



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Overview

Quantity:	1 mg
Target:	CRAT
Protein Characteristics:	AA 1-626
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This CRAT protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Purpose:	Custom-made recombinat CRAT Protein expressed in mammalian cells.
Sequence:	<p>MLAFAARTVV KPLGFLKPFS LMKASSRFKA HQDALPRLPV PPLQQSLDHY LKALQPIVSE EEWAHTKQLV DEFQASGGVG ERLQKGLERR ARKTENWLSE WWLKTAYLQY RQPVVIYSSP GVMLPKQDFV DLQGQLRFAA KLIEGVLDKF VMIDNETLPV EYLGGKPLCM NQYYQILSSC RVPGPKQDTV SNFSKTKKPP THITVVHNYQ FFELDVYHSD GTPLTADQIF VQLEKIWNSS LQTNKEPVG I LTSNHRNSWA KAYNTLIKDK VNRDSVRSIQ KSIFTVCLDA TMPRVSEDVY RSHVAGQMLH GGSRLNSGN RWFDKTLQFI VAEDGSCGLV YEHAAGPP ITLLDYVIE YTKKPELVRS PLVPLPMPKK LRFNITPEIK SDIEKAKQNL SIMIQDLIT VMVFHHFGKD FPKSEKLSPD AFIQMALQLA YYRIYGQACA TYESASLRMF HLGRTDTIRS ASMDSLTFVK AMDDSSVTEH QKVELLRKAV QAHRGYTDRA IRGEAFDRHL LGLKLQAIED LVSMPIFMD TSYAIAMHFH LSTSQVPAKT DCVMFFGPVV PDGYGVCYNP MEAHINFSLS AYNCAETNA ARLAHYLEKA LLDMRALLQS HPRAKL Sequence without tag. The proposed Purification-Tag</p>

Product Details

is based on experiences with the expression system, a different complexity of the protein could make another tag necessary. In case you have a special request, please contact us.

Characteristics:

Key Benefits:

- Made to order protein - from design to production - by highly experienced protein experts.
- Protein expressed in mammalian cells and purified in one-step affinity chromatography
- The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.
- State-of-the-art algorithm used for plasmid design (Gene synthesis).

This protein is a made-to-order protein and will be made for the first time for your order. Our experts in the lab try to ensure that you receive soluble protein.

If you are not interested in a full length protein, please contact us for individual protein fragments.

The big advantage of ordering our made-to-order proteins in comparison to ordering custom made proteins from other companies is that there is no financial obligation in case the protein cannot be expressed or purified.

Purity:

> 90 % as determined by Bis-Tris Page, Western Blot

Grade:

custom-made

Target Details

Target:

CRAT

Alternative Name:

CRAT ([CRAT Products](#))

Background:

Carnitine O-acetyltransferase (Carnitine acetylase) (EC 2.3.1.137) (EC 2.3.1.7) (Carnitine acetyltransferase) (CAT) (CrAT), FUNCTION: Catalyzes the reversible transfer of acyl groups from carnitine to coenzyme A (CoA) and regulates the acyl-CoA/CoA ratio. Also plays a crucial role in the transport of fatty acids for beta-oxidation (PubMed:15099582, PubMed:29395073). Responsible for the synthesis of short- and branched-chain acylcarnitines (PubMed:23485643). Active towards some branched-chain amino acid oxidation pathway (BCAAO) intermediates (PubMed:23485643). Trans-2-enoyl-CoAs and 2-methylacyl-CoAs are poor substrates (PubMed:23485643). {ECO:0000269|PubMed:15099582, ECO:0000269|PubMed:23485643, ECO:0000269|PubMed:29395073}.

Molecular Weight:

70.9 kDa

Target Details

UniProt:	P43155
Pathways:	Monocarboxylic Acid Catabolic Process

Application Details

Application Notes:	In addition to the applications listed above we expect the protein to work for functional studies as well. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	The buffer composition is at the discretion of the manufacturer.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	12 months