

Datasheet for ABIN7563296  
**CRAT Protein (AA 1-626) (His tag)**



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## Overview

Quantity:	1 mg
Target:	CRAT
Protein Characteristics:	AA 1-626
Origin:	Mouse
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 mammalien cells.
Sequence:	MLAFAARTVV KPLGLLKPSS LMKVSGRFKA HQDALPRLPV PPLQQSLDYY LKALQPIVSE EEWAHTKQLV DEFQTSGGVG ERLQKGLERR AKKMENWLSE WWLKTAYLQF RQPVVIYSSP GVILPKQDFV DLQGQLRFAA KLIEGVLDFK SMIDNETLPV EFLGGQPLCM NQYYQILSSC RVPGPKQDSV VNFLKSKRPP THITVVHNYQ FFELDVYHSD GTPLTSDQIF VQLEKIWNSS LQSNKEPVG I LTSNHRNTWA KAYNNLIKDK VNRESVNSIQ KSIFTVCLDK QVPRVSDDVY RNHVAGQMLH GGGSKFNSGN RWFDKTLQFI VAEDGSCGMV YEHA A AEGPP IVALVDHVME YTKKPELVRS PMVPLPMPKK LRFNITPEIK NDIEKAKQNL SIMIQDLDIM MLTFHHFGKD FPKSEKLSPD AFIQVALQLA YYRIYQACA TYESASLRMF HLGRTDTIRS ASIDSLAFVK GMGDSTVPEQ QKVELLRKAV QAHRAYTDRA IRGEAFDRHL LGLKLQAIED LVSMPDIFMD TSYAIAMHFN LSTSQVPAKT DCVMFFGPVV PDGYGICYNP MEAHINFSVS AYNSCAETNA ARMAHYLEKA LLDMRTLLQN HPRAKL <b>Sequence without tag. The proposed Purification-Tag</b>

## Product Details

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**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

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### 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. Responsible for the synthesis of short- and branched-chain acylcarnitines. Active towards some branched-chain amino acid oxidation pathway (BCAAO) intermediates. Trans-2-enoyl-CoAs and 2-methylacyl-CoAs are poor substrates. {ECO:0000250|UniProtKB:P43155}.

### Molecular Weight:

70.8 kDa

### UniProt:

[P47934](#)

### Pathways:

[Monocarboxylic Acid Catabolic Process](#)

## Application Details

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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.

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Restrictions: For Research Use only

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## Handling

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Format: Liquid

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Buffer: The buffer composition is at the discretion of the manufacturer.

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Handling Advice: Avoid repeated freeze-thaw cycles.

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Storage: -80 °C

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Storage Comment: Store at -80°C.

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Expiry Date: 12 months

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