

Datasheet for ABIN3090473 CRAT Protein (AA 1-626) (Strep Tag)



Overview

Quantity:	250 µg
Target:	CRAT
Protein Characteristics:	AA 1-626
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This CRAT protein is labelled with Strep Tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA

Product Details

Brand:	AliCE®
Sequence:	MLAFAARTVV KPLGFLKPFS LMKASSRFKA HQDALPRLPV PPLQQSLDHY LKALQPIVSE
	EEWAHTKQLV DEFQASGGVG ERLQKGLERR ARKTENWLSE WWLKTAYLQY RQPVVIYSSP
	GVMLPKQDFV DLQGQLRFAA KLIEGVLDFK VMIDNETLPV EYLGGKPLCM NQYYQILSSC
	RVPGPKQDTV SNFSKTKKPP THITVVHNYQ FFELDVYHSD GTPLTADQIF VQLEKIWNSS
	LQTNKEPVGI LTSNHRNSWA KAYNTLIKDK VNRDSVRSIQ KSIFTVCLDA TMPRVSEDVY
	RSHVAGQMLH GGGSRLNSGN RWFDKTLQFI VAEDGSCGLV YEHAAAEGPP IVTLLDYVIE
	YTKKPELVRS PLVPLPMPKK LRFNITPEIK SDIEKAKQNL SIMIQDLDIT VMVFHHFGKD
	FPKSEKLSPD AFIQMALQLA YYRIYGQACA TYESASLRMF HLGRTDTIRS ASMDSLTFVK
	AMDDSSVTEH QKVELLRKAV QAHRGYTDRA IRGEAFDRHL LGLKLQAIED LVSMPDIFMD
	TSYAIAMHFH LSTSQVPAKT DCVMFFGPVV PDGYGVCYNP MEAHINFSLS AYNSCAETNA
	ARLAHYLEKA LLDMRALLQS HPRAKL

Order at www.antibodies-online.com | www.antikoerper-online.de | www.anticorps-enligne.fr | www.antibodies-online.cn International: +49 (0)241 95 163 153 | USA & Canada: +1 877 302 8632 | support@antibodies-online.com Page 1/4 | Product datasheet for ABIN3090473 | 02/25/2025 | Copyright antibodies-online. All rights reserved. Sequence without tag. The proposed Strep-Tag is based on experience s 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 in Germany from design to production by highly experienced protein experts.
- · Protein expressed with ALiCE® and purified in one-step affinity chromatography
- These proteins are normally active (enzymatically functional) as our customers have reported (not tested by us and not guaranteed).
- 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.

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.

Expression System:

- ALICE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from Nicotiana tabacum c.v.. This contains all the protein expression machinery needed to produce even the most difficult-to-express proteins, including those that require posttranslational modifications.
- During lysate production, the cell wall and other cellular components that are not required for
 protein production are removed, leaving only the protein production machinery and the
 mitochondria to drive the reaction. During our lysate completion steps, the additional
 components needed for protein production (amino acids, cofactors, etc.) are added to
 produce something that functions like a cell, but without the constraints of a living system all that's needed is the DNA that codes for the desired protein!

Concentration:

- The concentration of our recombinant proteins is measured using the absorbance at 280nm.
- The protein's absorbance will be measured against its specific reference buffer.
- We use the Expasy's ProtParam tool to determine the absorption coefficient of each protein.

Purification:	One-step Strep-tag purification of proteins expressed in Almost Living Cell-Free Expression System (AliCE®).
Purity:	> 70-80 % as determined by SDS PAGE, Western Blot and analytical SEC (HPLC).

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Product Details

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
UniProt:	P43155
Pathways:	Monocarboxylic Acid Catabolic Process
Application Details	
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· · ·	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
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Application Details

Restrictions:

For Research Use only

Handling

Format:	Liquid
Buffer:	The buffer composition is at the discretion of the manufacturer. Standard Storage Buffer: PBS pH 7.4, 10 % Glycerol Might differ depending on protein.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	12 months