antibodies

Datasheet for ABIN3121231 CPT1A Protein (AA 123-773) (His tag)





Overview

Quantity:	1 mg
Target:	CPT1A
Protein Characteristics:	AA 123-773
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This CPT1A protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA, Crystallization (Crys)

Product Details

Sequence:	RYSLKVLLSY HGWMFAEHGK MSRSTRIWMA MVKVFSGRKP MLYSFQTSLP RLPVPAVKDT
	VSRYLESVRP LMKEGDFQRM TALAQDFAVN LGPKLQWYLK LKSWWATNYV SDWWEEYIYL
	RGRGPIMVNS NYYAMEMLYI TPTHIQAARA GNTIHAILLY RRTVDREELK PIRLLGSTIP
	LCSAQWERLF NTSRIPGEET DTIQHVKDSR HIVVYHRGRY FKVWLYHDGR LLRPRELEQQ
	MQQILDDTSE PQPGEAKLAA LTAADRVPWA KCRQTYFARG KNKQSLDAVE KAAFFVTLDE
	SEQGYREEDP EASIDSYAKS LLHGRCFDRW FDKSITFVVF KNSKIGINAE HSWADAPIVG
	HLWEYVMATD VFQLGYSEDG HCKGDKNPNI PKPTRLQWDI PGECQEVIET SLSSASFLAN
	DVDLHSFPFD TFGKGLIKKC RTSPDAFIQL ALQLAHYKDM GKFCLTYEAS MTRLFREGRT
	ETVRSCTTES CNFVLAMMDP TTTAEQRFKL FKIACEKHQH LYRLAMTGAG IDRHLFCLYV
	VSKYLAVDSP FLKEVLSEPW RLSTSQTPQQ QVELFDFEKY PDYVSCGGGF GPVADDGYGV
	SYIIVGENFI HFHISSKFSS PETDSHRFGK HLRQAMMDII TLFGLTANSK K
	Sequence without tag. Tag location is at the discretion of the manufacturer. If you have a

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 ABIN3121231 | 09/11/2023 | Copyright antibodies-online. All rights reserved.

Product Details

	special request, please contact us.
Characteristics:	 Made in Germany - from design to production - by highly experienced protein experts. Mouse Cpt1a Protein (raised in Insect Cells) purified by multi-step, protein-specific process to ensure crystallization grade. 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 will ensure that you receive a correctly folded 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.
	In the unlikely event that the protein cannot be expressed or purified we do not charge anything
	(other companies might charge you for any performed steps in the expression process for
	custom-made proteins, e.g. fees might apply for the expression plasmid, the first expression
	experiments or purification optimization).
	When you order this made-to-order protein you will only pay upon receival of the correctly
	folded protein. With no financial risk on your end you can rest assured that our experienced
	protein experts will do everything to make sure that you receive the protein you ordered.
	The concentration of our recombinant proteins is measured using the absorbance at 280nm.
	The protein's absorbance will be measured in several dilutions and is measured against its
	specific reference buffer.
	The concentration of the protein is calculated using its specific absorption coefficient. We use
	the Expasy's protparam tool to determine the absorption coefficient of each protein.
Purification:	Two step purification of proteins expressed in baculovirus infected SF9 insect cells:
	 In a first purification step, the protein is purified from the cleared cell lysate using three different His-tag capture materials: high yield, EDTA resistant, or DTT resistant. Eluate fractions are analyzed by SDS-PAGE.
	 Protein containing fractions of the best purification are subjected to second purification step through size exclusion chromatography. Eluate fractions are analyzed by SDS-PAGE and Western blot.
Purity:	>95 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.
Sterility:	0.22 µm filtered
Endotoxin Level:	Protein is endotoxin free.
Grade:	Crystallography grade

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 2/4 | Product datasheet for ABIN3121231 | 09/11/2023 | Copyright antibodies-online. All rights reserved.

Target Details

Target:	CPT1A
Alternative Name:	Cpt1a (CPT1A Products)
Background:	Catalyzes the transfer of the acyl group of long-chain fatty acid-CoA conjugates onto carnitine, an essential step for the mitochondrial uptake of long-chain fatty acids and their subsequent beta-oxidation in the mitochondrion. Plays an important role in triglyceride metabolism. {ECO:0000269 PubMed:16169268, ECO:0000269 PubMed:17030509}.
Molecular Weight:	75.9 kDa Including tag.
UniProt:	P97742
Pathways:	AMPK Signaling, Regulation of Lipid Metabolism by PPARalpha, Feeding Behaviour, 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 gurantee though.
Comment:	Protein has not been tested for activity yet. In cases in which it is highly likely that the recombinant protein with the default tag will be insoluble our protein lab may suggest a higher molecular weight tag (e.g. GST-tag) instead to increase solubility. We will discuss all possible options with you in detail to assure that you receive your protein of interest.
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	100 mM NaCL, 20 mM Hepes, 10% glycerol. pH value 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:	Unlimited (if stored properly)



Image 1. "Crystallography Grade" protein due to multi-step, protein-specific purification process

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 4/4 | Product datasheet for ABIN3121231 | 09/11/2023 | Copyright antibodies-online. All rights reserved.