

Datasheet for ABIN7558544
CPT1C Protein (AA 1-798) (His tag)



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Overview

Quantity:	1 mg
Target:	CPT1C
Protein Characteristics:	AA 1-798
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This CPT1C protein is labelled with His tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Purpose:	Custom-made recombinat Cpt1c Protein expressed in mammalien cells.
Sequence:	MAEAHQASSL LSSLSSDGAE VELSSPVWQE IYLCALRSWK RHLWRVWVWDF LAGVVPATPL SWLFLFSTIQ LACLLQLDPS LGLMEKIKEL LPDWGGQHHQ LQGFLSAAVF ASCLWGALIF TLHVALRLLL SHHGWLLEPH GAMSSPTKTW LALVRIFSGR HPRLFSFQRA LPRQPVPSAQ ETVRKYLESV RPYLGDADF RATALANDFL RLHAPRLQLY LQLKSWCTSN YVSDWWEFV YLRSGSLIN STYYMMDFLY VTPTPLQAAR AGNAVHTLLL YRHLLNRQEI SPTLLMGMRP LCSAQYERMF NTRIPGVEK DHLRHLQDSR HVAVFHRGRF FRVGTSPNG LLSPRALEQQ FQDILDDPSP ACPLEEHAA LTAAPRSMWA QVRESVKTHA ATALEAVEGA AFFVSLDSEP AGLTREDPAA SLDAYAHALL AGRGHDRWFD KSFTLIVFSN GKLGLSVEHS WADCPVSGHL WEFTLATECF QLGATDGHG KGHPDPTLPQ PQRLQWDLPE QIQPSISLAL RGAKTLSGNI DCHVFPFSHF GKSFICCHV SSSDFIQLVL QLAHFRDRGQ FCLTYESAMT RLFLEGRTE VRSTREACQ FVRAMDNKET DQHCLALFRV AVDKHQALLK AAMSGQGIDR HLFALYIMSR

Product Details

LLHMQSPFLT QVQSQQWLLS TSQVPVQQTH LIDVHNYPDY VSSGGGFGPA HDHGYGISYI
FMGENAIFH ISSKKSSTET DSHRLGQHIE NALLDVASLF RVGQHFKRQF RGENSDYRYN
FLSCKTVDPN TPTSSTNL **Sequence without tag. The proposed Purification-Tag 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:

CPT1C

Alternative Name:

Cpt1c ([CPT1C Products](#))

Background:

Palmitoyl thioesterase CPT1C (EC 3.1.2.22) (Carnitine O-palmitoyltransferase 1, brain isoform) (CPTI-B) (Carnitine palmitoyltransferase 1C) (Carnitine palmitoyltransferase I) (CPT I-C),FUNCTION: Palmitoyl thioesterase specifically expressed in the endoplasmic reticulum of neurons. Modulates the trafficking of the glutamate receptor, AMPAR, to plasma membrane through depalmitoylation of GRIA1 (By similarity). Also regulates AMPR trafficking through the regulation of SACM1L phosphatidylinositol-3-phosphatase activity by interaction in a malonyl-CoA dependent manner (PubMed:32931550). Binds malonyl-CoA and couples malonyl-CoA to ceramide levels, necessary for proper spine maturation and contributing to systemic energy

Target Details

homeostasis and appetite control (PubMed:16651524, PubMed:22539351, PubMed:37309891). Binds to palmitoyl-CoA, but does not have carnitine palmitoyltransferase 1 catalytic activity or at very low levels (PubMed:12376098, PubMed:25751282, PubMed:30135643). {ECO:0000250|UniProtKB:Q8TCG5, ECO:0000269|PubMed:12376098, ECO:0000269|PubMed:16651524, ECO:0000269|PubMed:22539351, ECO:0000269|PubMed:25751282, ECO:0000269|PubMed:30135643, ECO:0000269|PubMed:32931550, ECO:0000269|PubMed:37309891}.

Molecular Weight: 90.0 kDa

UniProt: [Q8BGD5](#)

Pathways: [AMPK Signaling](#), [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