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Datasheet for ABIN3127785 CPT1B Protein (AA 1-772) (Strep Tag)



Overview

Quantity:	1 mg
Target:	CPT1B
Protein Characteristics:	AA 1-772
Origin:	Mouse
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This CPT1B protein is labelled with Strep Tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA

Product Details

Sequence:	MAEAHQAVAF QFTVTPDGVD FRLSREALRH IYLSGINSWK KRLIRIKNGI LRGVYPGSPT
	SWLVVVMATV GSNYCKVDIS MGLVDCIQRC LPERYGHFGT PQTEALLSMV IFSTGVWATG
	IFFFRQTLKL LLSYHGWMFE MHSKTSHATK IWAICVRLLS SRRPMLYSFQ TSLPKLPVPS
	VPATIHRYLD SVRPLLDDEA YYRMETLAKE FQDKTAPRLQ KYLVLKSWWA TNYVSDWWEE
	YVYLRSRSPL MVNSNYYAMD FVLIKNTNVQ AARLGNAVHA MIMYRRKLDR EEIKPVMALG
	MVPMCSYQME RMFNTTRIPG KETDLLQHLS ESRHVAVYHK GRFFKVWLYE GSRLLKPRDL
	EMQFQRILDD PSPPQPGEEK LAALTAGGRV EWAEARQTFF SSGKNKMSLD AIERAAFFVT
	LDEDSHCYNP DDETSLSLYG KALLHGNCYN RWFDKSFTLI SCKNGLLGLN TEHSWADAPI
	IGHLWEFVLG TDTFHLGYTE TGHCVGEPNT TLPPPQRLPW DIPEQCREAI ENSYQVAKAL
	ADDVELYCFQ FLPFGKGLIK KCRTSPDAFV QIALQLAHFR DKGKFCLTYE ASMTRMFREG
	RTETVRSCTN ESAAFVQAMM KGSHKKQDLQ DLFRKASEKH QNMYRLAMTG AGIDRHLFCL
	YIVSKYLGVS SPFLAEVLSE PWSLSTSQIP QFQICMFDPK QYPNHLGAGG GFGPVADDGY

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GVSYMIAGEN TMFFHISSKY SSSETNAQRF GNHIRQALLD IAELFKISKT DS

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 by multi-step, protein-specific process to ensure correct folding and modification.
- 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 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.

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 in several dilutions and is measured against its specific reference buffer.
- We use the Expasy's protparam tool to determine the absorption coefficient of each protein.

Purification:

Two step purification of proteins expressed in Almost Living Cell-Free Expression System

	(ALiCE®):
	 In a first purification step, the protein is purified from the cleared cell lysate using StrepTag capture material. 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:	\ge 80 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.
Endotoxin Level:	Low Endotoxin less than 1 EU/mg (< 0.1 ng/mg)
Grade:	Crystallography grade
Target Details	
Target:	CPT1B
Alternative Name:	Cpt1b (CPT1B Products)
Background:	Carnitine O-palmitoyltransferase 1, muscle isoform (CPT1-M) (EC 2.3.1.21) (Carnitine O- palmitoyltransferase I, muscle isoform) (CPT I) (CPTI-M) (Carnitine palmitoyltransferase 1B),FUNCTION: Catalyzes the transfer of the acyl group of long-chain fatty acid-CoA conjugate onto carnitine, an essential step for the mitochondrial uptake of long-chain fatty acids and their subsequent beta-oxidation in the mitochondrion. {ECO:0000250 UniProtKB:Q63704}.
Molecular Weight:	88.2 kDa
UniProt:	Q924X2
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.
Comment:	 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 post-translational 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

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Application Details	
	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!
Restrictions:	For Research Use only
Handling	
Format:	Liquid
Buffer:	The buffer composition is at the discretion of the manufacturer. If you have a special request, please contact us.
Handling Advice:	Avoid repeated freeze-thaw cycles.

Storage:-80 °CStorage Comment:Store at -80°C.Expiry Date:Unlimited (if stored properly)

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