Datasheet for ABIN3116293

ZDHHC17 Protein (AA 1-632) (Strep Tag)

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Overview

Quantity:	1 mg
Target:	ZDHHC17
Protein Characteristics:	AA 1-632
Origin:	Human
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This ZDHHC17 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Sequence:	MQREEGFNTK MADGPDEYDT EAGCVPLLHP EEIKPQSHYN HGYGEPLGRK THIDDYSTWD IVKATQYGIY ERCRELVEAG YDVRQPDKEN VTLLHWAAIN NRIDLVKYYI SKGAIVDQLG GDLNSTPLHW ATRQGHLSMV VQLMKYGADP SLIDGEGCSC IHLAAQFGHT SIVAYLIAKG QDVDMMDQNG MTPLMWAAYR THSVDPTRLL LTFNVSVNLG DKYHKNTALH WAVLAGNTTV ISLLLEAGAN VDAQNIKGES ALDLAKQRKN VWMINHLQEA RQAKGYDNPS FLRKLKADKE FRQKVMLGTP FLVIWLVGFI ADLNIDSWLI KGLMYGGVWA TVQFLSKSFF DHSMHSALPL GIYLATKFWM YVTWFFWFWN DLNFLFIHLP FLANSVALFY NFGKSWKSDP GIIKATEEQK KKTIVELAET GSLDLSIFCS TCLIRKPVRS KHCGVCNRCI AKFDHHCPWV GNCVGAGNHR YFMGYLFFLL FMICWMIYGC ISYWGLHCET TYTKDGFWTY ITQIATCSPW MFWMFLNSVF HFMWVAVLLM CQMYQISCLG ITTNERMNAR RYKHFKVTTT SIESPFNHGC VRNIIDFFEF RCCGLFRPVI VDWTRQYTIE YDQISGSGYQ LV **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 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 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®): 1. In a first purification step, the protein is purified from the cleared cell lysate using StrepTag

Product Details

	capture material. Eluate fractions are analyzed by SDS-PAGE. 2. 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:	>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)

Target Details

Target:	ZDHHC17
Alternative Name:	ZDHHC17 (ZDHHC17 Products)
Background:	Palmitoyltransferase ZDHHC17 (EC 2.3.1.225) (Acyltransferase ZDHHC17) (EC 2.3.1.-) (DHHC domain-containing cysteine-rich protein 17) (DHHC17) (Huntingtin yeast partner H) (Huntingtin-interacting protein 14) (HIP-14) (Huntingtin-interacting protein 3) (HIP-3) (Huntingtin-interacting protein H) (Putative MAPK-activating protein PM11) (Putative NF-kappa-B-activating protein 205) (Zinc finger DHHC domain-containing protein 17),FUNCTION: Palmitoyltransferase that catalyzes the addition of palmitate onto various protein substrates and is involved in a variety of cellular processes (PubMed:15489887, PubMed:15603740, PubMed:24705354, PubMed:27911442, PubMed:28757145). Has no stringent fatty acid selectivity and in addition to palmitate can also transfer onto target proteins myristate from tetradecanoyl-CoA and stearate from octadecanoyl-CoA (By similarity). Palmitoyltransferase specific for a subset of neuronal proteins, including SNAP25, DLG4/PSD95, GAD2, SYT1 and HTT (PubMed:15603740, PubMed:15489887, PubMed:19139280, PubMed:28757145). Also palmitoylates neuronal protein GPM6A as well as SPRED1 and SPRED3 (PubMed:24705354). Could also play a role in axonogenesis through the regulation of NTRK1 and the downstream ERK1/ERK2 signaling cascade (By similarity). May be involved in the sorting or targeting of critical proteins involved in the initiating events of endocytosis at the plasma membrane (PubMed:12393793). May play a role in Mg(2+) transport (PubMed:18794299). Could also palmitoylate DNAJC5 and regulate its localization to the Golgi membrane (By similarity). Palmitoylates CASP6, thereby preventing its dimerization and subsequent activation (PubMed:27911442). {ECO:0000250|UniProtKB:Q80TN5, ECO:0000269|PubMed:12393793, ECO:0000269|PubMed:15489887, ECO:0000269|PubMed:15603740, ECO:0000269|PubMed:18794299, ECO:0000269|PubMed:19139280, ECO:0000269|PubMed:24705354, ECO:0000269|PubMed:27911442, ECO:0000269|PubMed:28757145}.

Target Details

Molecular Weight:	72.6 kDa
UniProt:	Q8IUH5

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