Datasheet for ABIN3097871

ZDHHC9 Protein (AA 1-364) (Strep Tag)

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Overview

Quantity:	250 µg
Target:	ZDHHC9
Protein Characteristics:	AA 1-364
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This ZDHHC9 protein is labelled with Strep Tag.
Application:	Western Blotting (WB), ELISA, SDS-PAGE (SDS)

Product Details

Brand:	AliCE®
Sequence:	MSVMVVRKKV TRKWEKLPGR NTFCCDGRVM MARQKGIFYL TLFLILGTCT LFFAFECRYL AVQLSPAIPV FAAMLFLFSM ATLLRTSFSD PGVIPRALPD EAAFIEMEIE ATNGAVPQGQ RPPPRIKNFQ INNQIVKLKY CYTCKIFRPP RASHCSICDN CVERFDHHCP WVGNCVGKRN YRYFYLFILS LSLLTIYVFA FNIVYVALKS LKIGFLETLK ETPGTVLEVL ICFFTLWSVV GLTGFHTFLV ALNQTTNEDI KGSWTGKNRV QNPYSHGNIV KNCCEVLCGP LPPSVLDRRG ILPLEESGSR PPSTQETSSS LLPQSPAPTE HLNSNEMPED SSTPEEMPPP EPPEPPQEAA EAEK **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:

Product Details

- 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 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 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).
Grade:	custom-made

Target Details

Target:	ZDHHC9

Target Details

Alternative Name:	ZDHHC9 (ZDHHC9 Products)
Background:	Palmitoyltransferase ZDHHC9 (EC 2.3.1.225) (Zinc finger DHHC domain-containing protein 9) (DHHC-9) (DHHC9) (Zinc finger protein 379) (Zinc finger protein 380),FUNCTION: Palmitoyltransferase that catalyzes the addition of palmitate onto various protein substrates, such as ADRB2, HRAS, NRAS and CGAS (PubMed:16000296, PubMed:27481942, PubMed:37802025). The ZDHHC9-GOLGA7 complex is a palmitoyltransferase specific for HRAS and NRAS (PubMed:16000296). May have a palmitoyltransferase activity toward the beta-2 adrenergic receptor/ADRB2 and therefore regulate G protein-coupled receptor signaling (PubMed:27481942). Acts as a regulator of innate immunity by catalyzing palmitoylation of CGAS, thereby promoting CGAS homodimerization and cyclic GMP-AMP synthase activity (PubMed:37802025). {ECO:0000269|PubMed:16000296, ECO:0000269|PubMed:27481942, ECO:0000269|PubMed:37802025}., FUNCTION: (Microbial infection) Through a sequential action with ZDHHC20, rapidly and efficiently palmitoylates SARS coronavirus-2/SARS-CoV-2 spike protein following its synthesis in the endoplasmic reticulum (ER). In the infected cell, promotes spike biogenesis by protecting it from premature ER degradation, increases half-life and controls the lipid organization of its immediate membrane environment. Once the virus has formed, spike palmitoylation controls fusion with the target cell. {ECO:0000269|PubMed:34599882}.
Molecular Weight:	40.9 kDa
UniProt:	Q9Y397

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

Application Details

	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. 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