

Datasheet for ABIN3119065
ZDHHC8 Protein (AA 1-765) (Strep Tag)[Go to Product page](#)

1 Image

Overview

Quantity:	1 mg
Target:	ZDHHC8
Protein Characteristics:	AA 1-765
Origin:	Human
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This ZDHHC8 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Sequence:	<p>MPRSPGTRLK PAKYIPVATA AALLVGSSTL FVFTCPWLT RAVSPA VPVY NGIIFLVLA NFSMATFMDP GVFPRADEDE DKEDDFRAPL YKNVDVRGIQ VRMKWCATCH FYRPPRCSHC SVCDCNCVEDF DHHCPWVNNC IGRRNYRYFF LFLLSLSAHM VGVVAFGLVY VLNHAEGLGA AHTTITMAVM CVAGLFFIPV IGLTGFHVVL VTRGRTTNEQ VTGKFRGGVN PFTRGCCGNV EHVLC SPLAP RYVVEPPRLP LAVSLKPPFL RPELLDRAAP LKVKLSDNGL KAGLGRSKSK GSLDRLDEKP LDLGPPLPPK IEAGTFSSDL QTPRPGSAES ALSVQRTSPP TPAMYKFRPA FPTGPKVPFC GPGEQVPGPD SLTLGDD SIR SLDFVSEPSL DLPDYGP GGL HAA YPPSPPL SASDAFSGAL RSLSLKASSR RGGDHVALQP LRSEGGPPTP HRSIFAPHAL PNRNGSLSYD SLLNPGSPGG HACPAHPAVG VAGYHSPYLH PGATGDPPRP LPRSFSPVLG PRPREPSVPR YDNLRTIMA SIQERKDREE RERLLRSQAD SLFGDSGVYD APSSYSLQQA SVLSEGPRGP ALRYGSRDDL VAGPGFGGAR NPALQTSLS LSSSVSRAPR TSSSSLQADQ ASSNAPGPRP SSGSHRSPAR QGLPSPPGTP HSPSYAGPKA VAFIHTDLPE PPPSLTVQRD HPQLKTPPSK</p>
-----------	------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

LNGQSPGLAR LGPATGPPGP SASPTRHTLV KKVSGVGGTT YEISV

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

Product Details

(ALiCE®):

1. 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.
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)
Grade:	Crystallography grade

Target Details

Target:	ZDHHC8
Alternative Name:	ZDHHC8 (ZDHHC8 Products)
Background:	<p>Palmitoyltransferase ZDHHC8 (EC 2.3.1.225) (Zinc finger DHHC domain-containing protein 8) (DHHC-8) (Zinc finger protein 378),FUNCTION: Palmitoyltransferase that catalyzes the addition of palmitate onto various protein substrates and therefore functions in several unrelated biological processes (Probable). Through the palmitoylation of ABCA1 regulates the localization of the transporter to the plasma membrane and thereby regulates its function in cholesterol and phospholipid efflux (Probable). Could also palmitoylate the D(2) dopamine receptor DRD2 and regulate its stability and localization to the plasma membrane (Probable). Could also play a role in glutamatergic transmission (By similarity). {ECO:0000250 UniProtKB:Q5Y5T5, ECO:0000305 PubMed:19556522, ECO:0000305 PubMed:23034182, ECO:0000305 PubMed:26535572}., FUNCTION: (Microbial infection) Able to palmitoylate 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}.</p>
Molecular Weight:	81.4 kDa
UniProt:	Q9ULC8

Application Details

Application Notes:	In addition to the applications listed above we expect the protein to work for functional studies
--------------------	---------------------------------------------------------------------------------------------------

Application Details

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)



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