

Datasheet for ABIN7545250
ZDHHC20 Protein (AA 1-365) (His tag)



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Overview

Quantity:	1 mg
Target:	ZDHHC20
Protein Characteristics:	AA 1-365
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This ZDHHC20 protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant ZDHHC20 Protein expressed in mammalian cells.
Sequence:	<p>MAPWTLWRCC QRVVGVVPLV FITFVVVWSY YAYVVELCVF TIFGNEENGK TVVYLVAFHL FFVMFVWSYW MTIFTSPASP SKEFYLSNSE KERYEKEFSQ ERQQEILRRA ARALPIYTTS ASKTIRYCEK CQLIKPDRAH HCSACDSCIL KMDHHCPWVN NCVGFSNYKF FLLFLLYSLL YCLFVAATVL EYFIKFWTNE LTDTRAKFHV LFLFFVSAMF FISVLSLFSY HCWLVGKNRT TIESFRAPTF SYGPDGNGFS LGCSKNWRQV FGDEKKYWLL PIFSSLGDGC SFPTRLVGMD PEQASVTNQN EYARSSGSNQ PFPIKPLSES KNRLDSESQ WLENGAEEGI VKSGTNNHVT VAIEN</p> <p>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.</p>
Specificity:	If you are looking for a specific domain and are interested in a partial protein or a different isoform, please contact us regarding an individual offer.
Characteristics:	Key Benefits:

Product Details

- 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, anti-tag ELISA, Western Blot and analytical SEC (HPLC)
Grade:	custom-made

Target Details

Target:	ZDHHC20
Alternative Name:	ZDHHC20 (ZDHHC20 Products)

Background: Palmitoyltransferase ZDHHC20 (EC 2.3.1.225) (Acyltransferase ZDHHC20) (EC 2.3.1.-) (DHHC domain-containing cysteine-rich protein 20) (DHHC20) (Zinc finger DHHC domain-containing protein 20),FUNCTION: Palmitoyltransferase that could catalyze the addition of palmitate onto various protein substrates (PubMed:27153536, PubMed:29326245, PubMed:33219126). Catalyzes palmitoylation of Cys residues in the cytoplasmic C-terminus of EGFR, and modulates the duration of EGFR signaling by modulating palmitoylation-dependent EGFR internalization and degradation (PubMed:27153536). Has a preference for acyl-CoA with C16 fatty acid chains (PubMed:29326245). Can also utilize acyl-CoA with C14 and C18 fatty acid chains (PubMed:29326245). {ECO:0000269|PubMed:27153536, ECO:0000269|PubMed:29326245, ECO:0000269|PubMed:33219126}., FUNCTION: (Microbial infection) Dominant palmitoyltransferase responsible for lipidation of SARS coronavirus-2/SARS-CoV-2 spike protein. Through a sequential action with ZDHHC9, rapidly and efficiently palmitoylates spike protein following its synthesis in the endoplasmic reticulum (ER). In the infected cell, promotes spike biogenesis by protecting it from premature ER degradation,

Target Details

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: 42.3 kDa

UniProt: [Q5W0Z9](#)

Application Details

Application Notes: We expect the protein to work for functional studies. 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