Datasheet for ABIN7556067

ZDHHC5 Protein (AA 1-715) (His tag)

Go to Product page

Overview

Quantity:	1 mg
Target:	ZDHHC5
Protein Characteristics:	AA 1-715
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This ZDHHC5 protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant ZDHHC5 Protein expressed in mammalian cells.
Sequence:	MPAESGKRFK PSKYVPVSAA AIFLVGATTL FFAFTCPGLS LYVSPAVPIY NAIMFLFVLA NFSMATFMDP GIFPRAEEDE DKEDDFRAPL YKTVEIKGIQ VRMKWCATCR FYRPPRCSHC SVCDNCVEEF DHHCPWVNNC IGRRNYRYFF LFLLSLTAHI MGVFGFGLLY VLYHIEELSG VRTAVTMAVM CVAGLFFIPV AGLTGFHVVL VARGRTTNEQ VTGKFRGGVN PFTNGCCNNV SRVLCSSPAP RYLGRPKKEK TIVIRPPFLR PEVSDGQITV KIMDNGIQGE LRRTKSKGSL EITESQSADA EPPPPPKPDL SRYTGLRTHL GLATNEDSSL LAKDSPPTPT MYKYRPGYSS SSTSAAMPHS SSAKLSRGDS LKEPTSIAES SRHPSYRSEP SLEPESFRSP TFGKSFHFDP LSSGSRSSSL KSAQGTGFEL GQLQSIRSEG TTSTSYKSLA NQTRNGSLSY DSLLTPSDSP DFESVQAGPE PDPPLGYTSP FLSARLAQQR EAERHPRLVP TGPTHREPSP VRYDNLSRHI VASLQEREKL LRQSPPLPGR EEEPGLGDSG IQSTPGSGHA PRTSSSSDDS KRSPLGKTPL GRPAVPRFGK PDGLRGRGVG SPEPGPTAPY LGRSMSYSSQ KAQPGVSETE EVALQPLLTP KDEVQLKTTY SKSNGQPKSL GSASPGPGQP PLSSPTRGGV KKVSGVGGTT YEISV **Sequence**

Product Details

	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.
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: • 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:	ZDHHC5
Alternative Name:	ZDHHC5 (ZDHHC5 Products)
Background:	Palmitoyltransferase ZDHHC5 (EC 2.3.1.225) (Zinc finger DHHC domain-containing protein 5) (DHHC-5) (Zinc finger protein 375),FUNCTION: Palmitoyltransferase that catalyzes the addition of palmitate onto various protein substrates such as CTNND2, CD36, NOD1, NOD2, STAT3 and S1PR1 thus plays a role in various biological processes including cell adhesion, fatty acid uptake, bacterial sensing or cardiac functions (PubMed:21820437, PubMed:29185452, PubMed:31402609, PubMed:31649195, PubMed:34293401). Plays an important role in the regulation of synapse efficacy by mediating palmitoylation of delta-catenin/CTNND2, thereby increasing synaptic delivery and surface stabilization of alpha-amino-3-hydroxy-5-methyl-4-

Target Details

	isoxazole propionic acid receptors (AMPARs). Under basal conditions, remains at the synaptic membrane through FYN-mediated phosphorylation that prevents association with endocytic proteins (PubMed:26334723). Neuronal activity enhances the internalization and trafficking of DHHC5 from spines to dendritic shafts where it palmitoylates delta-catenin/CTNND2 (PubMed:26334723). Regulates cell adhesion at the plasma membrane by palmitoylating GOLGA7B and DSG2 (PubMed:31402609). Plays a role in innate immune response by mediating the palmitoylation of NOD1 and NOD2 and their proper recruitment to the bacterial entry site and phagosomes (PubMed:31649195, PubMed:34293401). Participates also in fatty acid uptake by palmitoylating CD36 and thereby targeting it to the plasma membrane. Upon binding of fatty acids to CD36, gets phosphorylated by LYN leading to inactivation and subsequent CD36 caveolar endocytosis (PubMed:32958780). Controls oligodendrocyte development by catalyzing STAT3 palmitoylation (By similarity). {ECO:0000250|UniProtKB:Q8VDZ4, ECO:0000269|PubMed:21820437, ECO:0000269|PubMed:26334723, ECO:0000269|PubMed:29185452, ECO:0000269|PubMed:31402609, ECO:0000269|PubMed:31649195, ECO:0000269|PubMed:32958780, ECO:0000269|PubMed:34293401}.
Molecular Weight:	77.5 kDa
UniProt:	Q9C0B5
Pathways:	SARS-CoV-2 Protein Interactome, The Global Phosphorylation Landscape of SARS-CoV-2 Infection

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.

Handling

Expiry Date:	12 months