

Datasheet for ABIN7553682
DDHD1 Protein (AA 1-900) (His tag)



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Overview

Quantity:	1 mg
Target:	DDHD1
Protein Characteristics:	AA 1-900
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This DDHD1 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Purpose:	Custom-made recombinat DDHD1 Protein expressed in mammalian cells.
Sequence:	<p>MNYPGRGSPR SPEHNGRGGG GGAWELGSDA RPAFGGGVCC FEHLPGGDPD DGDVPLALLR</p> <p>GEPGLHLAPG TDDHNHHLAL DPCLSDENYD FSSAESGSSL RYYSEGESGG GGSSLSLHPP</p> <p>QQPPLVPTNS GGGGATGGSP GERKTRLGG PAARHRYEVV TELGPEEVRW FYKEDKKTWK</p> <p>PFIGYDSLRI ELAFRTLLQT TGARPQGGDR DGDHVCSTG PASSSGEDDD EDRACGFCQS</p> <p>TTGHEPEMVE LVNIEPVCVR GGLYEVDVTQ GECYPVYWNQ ADKIPVMRGQ WFIDGTWQPL</p> <p>EEEEENLIEQ EHLNCFRGQQ MQENFDIEVS KSIDGKDAVH SFKLSRNHVD WHSVDEVYLY</p> <p>SDATTSKIAR TVTQKLGFSG ASSSGTRLHR GYVEEATLED KPSQTTHIVF VHGIGQKMD</p> <p>QGRIIKNTAM MREAARKIEE RHFSNHATHV EFLPVEWRSK LTLDGDTVDS ITPDKVRGLR</p> <p>DMLNSSAMDI MYYTSPLYRD ELVKGLQQL NRLYSLFCSR NPDFEEKGGK VSIVSHSLGC</p> <p>VITYDIMTGW NPVRLYEQLL QKEEELPDER WMSYEERHLL DELYITKRRL KEIEERLHGL</p> <p>KASSMTQTPA LKFKVENFFC MGSPLAVFLA LRGIRPGNTG SQDHILPREI CNRLNIFHP</p>

TDPVAYRLEP LILKHYSNIS PVQIHWYNTS NPLPYEHMKP SFLNPAKEPT SVSENEGIST
IPSPVTSPVL SRRHYGESIT NIGKASILGA ASIGKGLGGM LFSRFGSST TQSSETSKDS
MEDEKKPVAS PSATTVTGTQT LPHSSSGFLD SAYFRLQESF FNLPQLLFPE NVMQNKDNL
VELDHRIDFE LREGLVESRY WSAVTSHTAY WSSLDVALFL LTFMYKHEHD DDAKPNLDPI

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.

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, Western Blot

Grade:

custom-made

Target Details

Target:

DDHD1

Alternative Name:

DDHD1 ([DDHD1 Products](#))

Background:

Phospholipase DDHD1 (EC 3.1.1.111) (EC 3.1.1.32) (DDHD domain-containing protein 1) (Phosphatidic acid-preferring phospholipase A1 homolog) (PA-PLA1) (EC 3.1.1.118) (Phospholipid sn-1 acylhydrolase),FUNCTION: Phospholipase A1 (PLA1) that hydrolyzes ester bonds at the sn-1 position of glycerophospholipids producing a free fatty acid and a lysophospholipid (PubMed:20359546, PubMed:22922100) (Probable). Prefers phosphatidate (1,2-diacyl-sn-glycero-3-phosphate, PA) as substrate in vitro, but can efficiently hydrolyze

Target Details

phosphatidylinositol (1,2-diacyl-sn-glycero-3-phospho-(1D-myo-inositol), PI), as well as a range of other glycerophospholipid substrates such as phosphatidylcholine (1,2-diacyl-sn-glycero-3-phosphocholine, PC), phosphatidylethanolamine (1,2-diacyl-sn-glycero-3-phosphoethanolamine, PE), phosphatidylserine (1,2-diacyl-sn-glycero-3-phospho-L-serine, PS) and phosphatidylglycerol (1,2-diacyl-sn-glycero-3-phospho-(1'-sn-glycerol), PG) (PubMed:20359546) (Probable). Involved in the regulation of the endogenous content of polyunsaturated PI and PS lipids in the nervous system. Changes in these lipids extend to downstream metabolic products like PI phosphates PIP and PIP2, which play fundamental roles in cell biology (By similarity). Regulates mitochondrial morphology (PubMed:24599962). These dynamic changes may be due to PA hydrolysis at the mitochondrial surface (PubMed:24599962). May play a regulatory role in spermatogenesis or sperm function (PubMed:24599962). {ECO:0000250|UniProtKB:Q80YA3, ECO:0000269|PubMed:20359546, ECO:0000269|PubMed:22922100, ECO:0000269|PubMed:24599962, ECO:0000303|PubMed:24599962, ECO:0000305|PubMed:37189713}.

Molecular Weight: 100.4 kDa

UniProt: [Q8NEL9](#)

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.

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