Datasheet for ABIN7558435

DDHD1 Protein (AA 1-547) (His tag)

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Overview

Quantity:	1 mg
Target:	DDHD1
Protein Characteristics:	AA 1-547
Origin:	Mouse
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 mammalien cells.
Sequence:	MDEVYLYSDA TTSKIARTVT QKLGFSKASS SGTRLHRGYV EEATLEDKPS QTSHIVFVVH GIGQKMDQGR IIKNTAMMRE AARKMEEKHF SNHATHVEFL PVEWRSKLTL DGDTVDSITP DKVRGLRDML NSSAMDIMYY TSPLYRDELV KGLQQELNRL YSLFCSRNPD FEEKGGKVSI VSHSLGCVIT YDIMMGWNPG GLYEQLLQKE EELPDERWMS YEERHLLDEL YITKRRLREI EDRLHGLKAP SISQTPALKF KVENFFCMGS PLAVFLALRG IRPGNSGSQD HILPREICNR LLNIFHPTDP VAYRLEPLIL KHYSNISPVQ IHWYNTSNPL PYEHMKPNFL NPAKEPTSVS DSENIAAIPS PVTSPVLSRR HYGESITNIG KASILGAASI GKGLGGMLFS RFGRSSASQP SEPSKDSLED DKKPSASPST TTVATQTLPH SGSGFLDSAY FRLQESFFYL PQLLFPENVM QSKDDSLVEL EHRIDFELRE GLVESRYWSA VTSHTAYWSS LDVALFLLTF MYKHEHDTEA KPSLGSL **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**

Product Details

	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 mammalien 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:30221923) (Probable). Prefers phosphatidate (1,2-diacyl-sn-glycero-3-phosphate, PA) as substrate in vitro, but can efficiently hydrolyze 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:30221923) (Probable). Involved in the regulation of the endogenous content of polyunsaturated PI and PS lipids in the nervous

Target Details

	system (PubMed:30221923). Changes in these lipids extend to downstream metabolic products like PI phosphates PIP and PIP2, which play fundamental roles in cell biology (PubMed:30221923). 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:Q8NEL9, ECO:0000269|PubMed:24599962, ECO:0000269|PubMed:30221923, ECO:0000303|PubMed:24599962, ECO:0000305|PubMed:37189713}.
Molecular Weight:	61.8 kDa
UniProt:	Q80YA3

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

