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DIAPH1 Protein (AA 1-1255) (His tag)



Image



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Overview

Quantity:	1 mg
Target:	DIAPH1
Protein Characteristics:	AA 1-1255
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This DIAPH1 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA, Crystallization (Crys)

Product Details

Sequence:

MEPSGGGLGP GRGTRDKKKG RSPDELPATG GDGGKHKKFL ERFTSMRIKK EKEKPNSAHR NSSASYGDDP TAQSLQDISD EQVLVLFEQM LVDMNLNEEK QQPLREKDIV IKREMVSQYL HTSKAGMNQK ESSRSAMMYI QELRSGLRDM HLLSCLESLR VSLNNNPVSW VQTFGAEGLA SLLDILKRLH DEKEETSGNY DSRNQHEIIR CLKAFMNNKF GIKTMLETEE GILLLVRAMD PAVPNMMIDA AKLLSALCIL PQPEDMNERV LEAMTERAEM DEVERFQPLL DGLKSGTSIA LKVGCLQLIN ALITPAEELD FRVHIRSELM RLGLHQVLQE LREIENEDMK VQLCVFDEQG DEDFFDLKGR LDDIRMEMDD FGEVFQIILN TVKDSKAEPH FLSILQHLLL VRNDYEARPQ YYKLIEECVS QIVLHKNGTD PDFKCRHLQI DIERLVDQMI DKTKVEKSEA KATELEKKLD SELTARHELQ VEMKKMENDF EQKLQDLQGE KDALDSEKQQ ITAQKQDLEA EVSKLTGEVA KLSKELEDAK NEMASLSAVV VAPSVSSSAA VPPAPPLPGD SGTVIPPPPP PPPLPGGVVP PSPPLPPGTC IPPPPPLPGG ACIPPPPQLP GSAAIPPPPP LPGVASIPPP PPLPGATAIP PPPPLPGATA IPPPPPLPGG TGIPPPPPPL PGSVGVPPPP PLPGGPGLPP PPPPFPGAPG

IPPPPPGMGV PPPPPGGGV PAAPVLPFGL TPKKVYKPEV QLRRPNWSKF VAEDLSQDCF WTKVKEDRFE NNELFAKLTL AFSAQTKTSK AKKDQEGGEE KKSVQKKKVK ELKVLDSKTA QNLSIFLGSF RMPYQEIKNV ILEVNEAVLT ESMIQNLIKQ MPEPEQLKML SELKEEYDDL AESEQFGVVM GTVPRLRPRL NAILFKLQFS EQVENIKPEI VSVTAACEEL RKSENFSSLL ELTLLVGNYM NAGSRNAGAF GFNISFLCKL RDTKSADQKM TLLHFLAELC ENDHPEVLKF PDELAHVEKA SRVSAENLQK SLDQMKKQIA DVERDVQNFP AATDEKDKFV EKMTSFVKDA QEQYNKLRMM HSNMETLYKE LGDYFVFDPK KLSVEEFFMD LHNFRNMFLQ AVKENQKRRE TEEKMRRAKL AKEKAEKERL EKQQKREQLI DMNAEGDETG VMDSLLEALQ SGAAFRKRG PRQVNRKAGC AVTSLLASEL TKDDAMAPGP VKVPKKSEGV PTILEEAKEL VGRAS

Sequence without tag. Tag location is at the discretion of the manufacturer. If you have a special request, please contact us.

Characteristics:

- Made in Germany from design to production by highly experienced protein experts.
- Mouse Diaph1 Protein (raised in Insect Cells) purified by multi-step, protein-specific process to ensure crystallization grade.
- 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.

In the unlikely event that the protein cannot be expressed or purified we do not charge anything (other companies might charge you for any performed steps in the expression process for custom-made proteins, e.g. fees might apply for the expression plasmid, the first expression experiments or purification optimization).

When you order this made-to-order protein you will only pay upon receival of the correctly folded protein. With no financial risk on your end you can rest assured that our experienced protein experts will do everything to make sure that you receive the protein you ordered. 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.

The concentration of the protein is calculated using its specific absorption coefficient. We use the Expasy's protparam tool to determine the absorption coefficient of each protein.

Purification:

Two step purification of proteins expressed in baculovirus infected SF9 insect cells:

1. In a first purification step, the protein is purified from the cleared cell lysate using three different His-tag capture materials: high yield, EDTA resistant, or DTT resistant. Eluate

Product Details 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: >95 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot. 0.22 µm filtered Sterility: Endotoxin Level: Protein is endotoxin free. Grade: Crystallography grade Target Details DIAPH1 Target: Alternative Name: Diaph1 (DIAPH1 Products) Background: Acts in a Rho-dependent manner to recruit PFY1 to the membrane. Required for the assembly of F-actin structures, such as actin cables and stress fibers. Nucleates actin filaments. Binds to the barbed end of the actin filament and slows down actin polymerization and depolymerization. Required for cytokinesis, and transcriptional activation of the serum response factor. DFR proteins couple Rho and Src tyrosine kinase during signaling and the regulation of actin dynamics. Functions as a scaffold protein for MAPRE1 and APC to stabilize microtubules and promote cell migration. Has neurite outgrowth promoting activity (PubMed:10678165, PubMed:15044801, PubMed:18572016, PubMed:9214622). The MEMO1-RHOA-DIAPH1 signaling pathway plays an important role in ERBB2-dependent stabilization of microtubules at the cell cortex. It controls the localization of APC and CLASP2 to the cell membrane, via the regulation of GSK3B activity. In turn, membrane-bound APC allows the localization of the MACF1 to the cell membrane, which is required for microtubule capture and stabilization. Plays a role in the regulation of cell morphology and cytoskeletal organization. Required in the control of cell shape (By similarity). {ECO:0000250|UniProtKB:060610, ECO:0000269|PubMed:10678165, ECO:0000269|PubMed:15044801,

Molecular Weight: 140.3 kDa Including tag.
UniProt: 008808

Sensory Perception of Sound

Pathways:

ECO:0000269|PubMed:18572016, ECO:0000269|PubMed:9214622}.

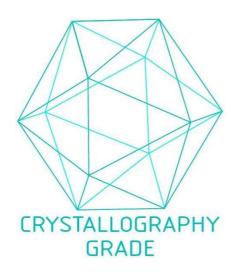
Application Details

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 gurantee though.
Comment:	Protein has not been tested for activity yet. In cases in which it is highly likely that the recombinant protein with the default tag will be insoluble our protein lab may suggest a higher molecular weight tag (e.g. GST-tag) instead to increase solubility. We will discuss all possible options with you in detail to assure that you receive your protein of interest.
Restrictions:	For Research Use only
Handling	
Format:	Liquid
Buffer:	100 mM NaCL, 20 mM Hepes, 10% glycerol. pH value is at the discretion of the manufacturer.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C

Images

Expiry Date:

Storage Comment:



Store at -80°C.

Unlimited (if stored properly)

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