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Datasheet for ABIN3136575

DENND1A Protein (AA 1-1016) (His tag)

1 Image

Overview

Quantity:	1 mg
Target:	DENND1A
Protein Characteristics:	AA 1-1016
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This DENND1A protein is labelled with His tag.
Application:	SDS-PAGE (SDS), ELISA, Western Blotting (WB), Crystallization (Crys)

Product Details

Sequence: MGSRIKQNPE TTFEVYVEVA YPRTGGT LSD PEVQRQFPED YSDQEV LQTL TKFCFPFYVD
 SLTVSQVGQN FTFVLTDIDS KQRF GFCRLS SGAKSCFCIL SYLPWF E VFY KLLNILADYT
 TKRQESQWNE LLET L HRLPI PDPGVS VHLS VHSYFTVPDS RELPSIPENR NLTEYFVAVD
 VNNMLHLYAS MLYERRILII CSKLSTLTAC IHGSAAMLYP MYWQHVIYIPV LPPHLLDYCC
 APMPYLIGIH LSLMEKVRNM ALDDVWILNV DTNTLET PFD DLQSLPNDVI SSLKNRLKKV
 STTTGDGVAR AFLKAQA AFF GSYRNALKIE PEEPITFSEE AFVSHYRSGA MKQFLQ NATQ
 LQLFKQFIDG RLDLLNSGEG FSDVFEE E IN MGEYAGSDKL YHQWLSTVRK GSGAILNTVK
 TKANPAMKTV YKFAKD HAKM GIKEVKNRLK QKDITENGCV SSAEDPLPKT MPSPQAETQD
 PRLREDRRPI TVHFGQVRPP RPHVVRPKS NITVEGRRTS VSSPEQPQPY RTLKESDSA E
 GDETESPEQL VREPWGPTPA PPDRAASIDL LEDVFSSLDV EAPLQPLGQA KSLEDLRAPK
 DLREQPGSFD YQRDL CRSE RGLSMAAALK LAHPYTKLWS LGQDDMAIPS KPSITSPEKP
 SALLGTSPAL PLRPQNQEGI LSPSIKEETP IPTPGSITIP RPQGRKTP EL GIVPPPPTAR

PAKLQAAGGP LGDFSSEPLQ MDRERQAALS PALLSGLLPR AVPQGPTTELL QPPSPAPGAA
GTGSDALLAL LDPLNTAWSG STIPSHPATP SAATPFIPQL SFPPTVTPTP FVQTPLNPFV
PSVPVPPSM PLSSTPARPF GTPPASLGPA YAPSILLSSS GFYAPHRSQP NLSALSMPNL
FGQIPMGAHT SPLQPLGPPA VAPSRITLP LARSSARAAE AKQGLALRPG ESPLPPRPP
QSLQPTPQPS VPTQARDPFE DLLRKTQDV SPSAPALAP ASTSVEQLRR QWETFE

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 Dennd1a 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 receipt 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 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.

Product Details

Purity:	>95 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.
Sterility:	0.22 µm filtered
Endotoxin Level:	Protein is endotoxin free.
Grade:	Crystallography grade

Target Details

Target:	DENND1A
Alternative Name:	Dennd1a (DENND1A Products)
Background:	Guanine nucleotide exchange factor (GEF) regulating clathrin-mediated endocytosis through RAB35 activation. Promotes the exchange of GDP to GTP, converting inactive GDP-bound RAB35 into its active GTP-bound form. Regulates clathrin-mediated endocytosis of synaptic vesicles and mediates exit from early endosomes (PubMed:17182770, PubMed:20159556). Binds phosphatidylinositol-phosphates (PtdInsPs), with some preference for PtdIns(3)P (PubMed:20159556). {ECO:0000269 PubMed:17182770, ECO:0000269 PubMed:20159556}.
Molecular Weight:	112.5 kDa Including tag.
UniProt:	Q8K382

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.
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.

Handling

Storage: -80 °C

Storage Comment: Store at -80°C.

Expiry Date: Unlimited (if stored properly)

Images



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