

Datasheet for ABIN3134968

DISP1 Protein (AA 1-1521) (rho-1D4 tag)[Go to Product page](#)**1** Image

Overview

Quantity:	1 mg
Target:	DISP1
Protein Characteristics:	AA 1-1521
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This DISP1 protein is labelled with rho-1D4 tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA, Crystallization (Crys)

Product Details

Sequence:	MAVISGSDSV LLSNGSISTS TSNPSPLSPS DGDLP AQHLG PRETPRTKAS PNGCLQLNGT VKSSFLPLDN QRTPQTPTQC CHPCPYHHPV SSHSNHQECH PEAGLAASPA LASC RMQPHS EYSASLCPNH SPVYQAAHCL QPSPSFCLHH PWP DHFQHQ P VRQHLTIIRP SRPFKFPRSY AALLADWPV V LGMCTLLIV VCALVGVLVP ELPDFSDPLL GFEP RGT TIG QRLVTWNNMM RNTGYKATLA NYPYKYAEEQ ARSHRDDRWS DDHHERERRE VDWNFQKDSF FCDVPSDGYS RVVFASAGGE TLWNLPAIKS MCDVDNSRIR SHPQFSDLCQ RTTAVSCCP S WTLGNYIAIL NNRSSCQKIV ERDVSHTLKL LRTCAKHYQN GTLGPDCWDK AARRKDQLKC TNVPRKCTKY NAVYQILHYL VDKDFMTPKT ADYAVPALKY SMLFSPTEKG ESM MN IYLDN FENWNSSDGI TTVTGIEFGI KHS LFQDYLL MDTVYPAIAI AIVLLIMCVY TKSMFITLMT MFAISSLIV SYFLYRVVFN FEFFPFMNL T ALIILVGIGA DDAFVLC DVW NYTKFDKPRA ETSEAVSVTL QHAALSMFVT SFTTAAAFYA NYVSNITAIR CFGVYAGTAI LVNYVLMVTW LPAVIVLHER YLLNIFTCFR KPQPQAYDKS CWAVLCQKCR RVLFAVSEAS RIFFE KVLPC IVIKFRYLWL IWFLALT VGG
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AYIVCVNPKM KLPSLELSEF QVFRSSHPFE RYDAEFKKLF MFERVHHGEE LHMPITVIWG
VSPEDSGDPL NPKSKGELTL DSTFNIA SPA SQAWILHFCQ KLRNQTFHHQ TEQQDFTSCF
IETFKQWMEN QDCDEPALYP CCSHCSPYK QEVFELCIKK AIMELDRSTG YHLNNKTPGP
RFDINDTIRA VVLEFQSTFL FTLAYEKMQQ FYKEVDSWIS HELSSAPEGL SRGWVFSNLE
FYDLQDSLSD GTLIAMGLSV AVAFSVMLLT TWNIISLYA IVSIAGTIFV TVGSLVLLGW
ELNVLESVTI SVAVGLSVDF AVHYGVAYRL APDPDREGKV IFSLSRMGSA IAMAALTTFV
AGAMMMPTV LAYTQLGTFM MLVMCVSWAF ATFFFQCLCR CLGPQGTGCGQ IPFPTKLQCS
PFSHTLSARP GDRGPSKTHA ASAYSVDARG KKSQLEHEFY ELQPLASHSC TSSEKTTYEE
PHTCSEFFNG QAKNLRMPVP AAYSSELT KS PSSEPGSALL QSCLEQD TVC HFSLNPRCNC
RDAYTHLQYG LPEIHCQQMG DSLCHKCAST AGGFVQIQSS VAPLKASHQA AEGLLHPAQH
MLPPGMQNSR PRNFFLHSVQ HFQAQENLGR TSTHSTDERL PRTAELSPPP SDSRSTESFQ
RACCHPENNQ RRLCKSRDPG DTEGSGGTS KVSGLPNQTD KEEKQVEPSL LQTDETVNSE
HLNHNESNFT FSHLPGEAGC RSCPNSPQSC RSIMRSKCGT EDCQTPNLEA NPPAVPTHSD
LSGESLLIKT L

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 Disp1 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.

Product Details

	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:	Three step purification of membrane proteins expressed in baculovirus infected SF9 insect cells: <ol style="list-style-type: none">1. Membrane proteins are fractioned by ultracentrifugation and subsequently solubilized with different detergents (detergent screen). Samples are analyzed by Western blot.2. The best performing detergent is used for solubilization and the proteins are purified via their rho1D4 tag via two rho1D4 antibody columns: one DTT resistant, the other one not. Eluate fractions are analyzed by Western blot.3. Protein containing fractions of the best purification are subjected to second purification step through size exclusion chromatograph. Eluate fractions are analyzed by SDS-PAGE and Western blot.
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:	DISP1
Alternative Name:	Disp1 (DISP1 Products)
Background:	Functions in hedgehog (Hh) signaling. Regulates the release and extracellular accumulation of cholesterol-modified hedgehog proteins and is hence required for effective production of the Hh signal. {ECO:0000269 PubMed:12372258, ECO:0000269 PubMed:12372301, ECO:0000269 PubMed:12421714}.
Molecular Weight:	171.3 kDa Including tag.
UniProt:	Q3TDN0
Pathways:	Hedgehog Signaling

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.
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Application Details

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

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