

Datasheet for ABIN3111143

Protocadherin 8 Protein (PCDH8) (AA 30-1070) (rho-1D4 tag)[Go to Product page](#)**1** Image

Overview

Quantity:	1 mg
Target:	Protocadherin 8 (PCDH8)
Protein Characteristics:	AA 30-1070
Origin:	Human
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This Protocadherin 8 protein is labelled with rho-1D4 tag.
Application:	ELISA, Western Blotting (WB), Crystallization (Crys), SDS-PAGE (SDS)

Product Details

Sequence:	KTVRYSTFEE DAPGTVIGTL AEDLHMKVSG DTSFRLMKQF NSSLLRVREG DGQLTVGDAG LDRERLCGQA PQCVLAFDVV SFSQEQFRLV HVEVEVRDVN DHAPRFPRQAQ IPVEVSEGAA VGTRIPLEVP VDEDVGANGL QTVRLAEPHS PFRVELQTRA DGAQCADLV LQELDRESQA AYSLELVAQD GGRPPRSATA ALSVRVLDAN DHSPAFPQGA VAEVELAEDA PVGSLLLDLD AADPDEGPNG DVVFAFGART PPEARRLFRL DPRSGRLTLA GPVDYERQDT YELDVRAQDR GPGPRAATCK VIVRIRDVND NAPDIAITPL AAPGAPATSP FAAAAAAAAA GGADASSPAG AGTPEAGATS LVPEGAARES LVALVSTSDR DSGANGQVRC ALYGHEHFRL QPAYAGSYLV VTAASLDRER IAEYNLTLVA EDRGAPPLRT VRPYTVRVGD ENDNAPLFTR PVYEVSVREN NPPGAYLATV AARDRLGRN GQVTYRLLEA EVGRAGGAVS TYVSVDPATG AIYALRSFDY ETLRQLDVRI QASDGGSPQL SSSALVQVRV LDQNDHAPVL VHPAPANGSL EVAVPGRTAK DTVVARVQAR DADEGANGEL AFELQQQEPR EAFAIGRRTG EILLTGDL SQ EPPGRVFRAL LVISDGGRPP LTTTATVSFV VTAGGGRGPA APASAGSPER SRPPGSRLGV SGSVLQWDTP
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LIVIVLAGS CTLLAAIIA IATTCNRRKK EVRKGGALRE ERPGAAGGGA SAPGSPEEAA
RGAGPRPNMF DVLTFPGTGK APFGSPAADA PPPAVAAAEV PGSEGGSATG ESACHFEGQQ
RLRGAHAEPY GASPGFGKEP APPVAVWKGH SFNTISGREA EKFSKGDSGK GDSDFNDSDS
DISGDALKKD LINHMQSGLW ACTAECKILG HSDRCWSPSC SGPNAHPSPH PPAQMSTFCK
STSLPRDPLR RDNYYQAQLP KTVGLQSVYE KVLHRDYDRT VTLLSPPRPG RLPDLQEIGV
PLYQSPPGRY LSPKKGANEN V

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.
- Human PCDH8 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:

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

1. Membrane proteins are fractionated 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

Product Details

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: Protocadherin 8 (PCDH8)

Alternative Name: PCDH8 ([PCDH8 Products](#))

Background: Calcium-dependent cell-adhesion protein (By similarity). May play a role in activity-induced synaptic reorganization underlying long term memory (By similarity). Could be involved in CDH2 internalization through TAOK2/p38 MAPK pathway. In hippocampal neurons, may play a role in the down-regulation of dendritic spines, maybe through its action on CDH2 endocytosis (By similarity). {ECO:0000250}.

Molecular Weight: 110.9 kDa Including tag.

UniProt: [O95206](#)

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: 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