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CDHR2 Protein (AA 21-1310) (rho-1D4 tag)





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Overview

Quantity:	1 mg
Target:	CDHR2
Protein Characteristics:	AA 21-1310
Origin:	Human
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This CDHR2 protein is labelled with rho-1D4 tag.
Application:	ELISA, Western Blotting (WB), Crystallization (Crys), SDS-PAGE (SDS)

Product Details

Sequence:

NVAPKFLANM TSVILPEDLP VGAQAFWLVA EDQDNDPLTY GMSGPNAYFF AVTPKTGEVK
LASALDYETL YTFKVTISVS DPYIQVQREM LVIVEDRNDN APVFQNTAFS TSINETLPVG
SVVFSVLAVD KDMGSAGMVV YSIEKVIPST GDSEHLFRIL ANGSIVLNGS LSYNNKSAFY
QLELKACDLG GMYHNTFTIQ CSLPVFLSIS VVDQPDLDPQ FVREFYSASV AEDAAKGTSV
LTVEAVDGDK GINDPVIYSI SYSTRPGWFD IGADGVIRVN GSLDREQLLE ADEEVQLQVT
ATETHLNIYG QEAKVSIWVT VRVMDVNDHK PEFYNCSLPA CTFTPEEAQV NFTGYVDEHA
SPRIPIDDLT MVVYDPDKGS NGTFLLSLGG PDAEAFSVSP ERAVGSASVQ VLVRVSALVD
YERQTAMAVQ VVATDSVSQN FSVAMVTIHL RDINDHRPTF PQSLYVLTVP EHSATGSVVT
DSIHATDPDT GAWGQITYSL LPGNGADLFQ VDPVSGTVTV RNGELLDRES QAVYYLTLQA
TDGGNLSSST TLQIHLLDIN DNAPVVSGSY NIFVQEEEGN VSVTIQAHDN DEPGTNNSRL
LFNLLPGPYS HNFSLDPDTG LLRNLGPLDR EAIDPALEGR IVLTVLVSDC GEPVLGTKVN
VTITVEDIND NLPIFNQSSY NFTVKEEDPG VLVGVVKAWD ADQTEANNRI SFSLSGSGAN

YFMIRGLVLG AGWAEGYLRL PPDVSLDYET QPVFNLTVSA ENPDPQGGET IVDVCVNVKD VNDNPPTLDV ASLRGIRVAE NGSQHGQVAV VVASDVDTSA QLEIQLVNIL CTKAGVDVGS LCWGWFSVAA NGSVYINQSK AIDYEACDLV TLVVRACDLA TDPGFQAYSN NGSLLITIED VNDNAPYFLP ENKTFVIIPE LVLPNREVAS VRARDDDSGN NGVILFSILR VDFISKDGAT IPFQGVFSIF TSSEADVFAG SIQPVTSLDS TLQGTYQVTV QARDRPSLGP FLEATTTLNL FTVDQSYRSR LQFSTPKEEV GANRQAINAA LTQATRTTVY IVDIQDIDSA ARARPHSYLD AYFVFPNGSA LTLDELSVMI RNDQDSLTQL LQLGLVVLGS QESQESDLSK QLISVIIGLG VALLLVLVIM TMAFVCVRKS YNRKLQAMKA AKEARKTAAG VMPSAPAIPG TNMYNTERAN PMLNLPNKDL GLEYLSPSND LDSVSVNSLD DNSVDVDKNS QEIKEHRPPH TPPEPDPEPL SVVLLGRQAG ASGQLEGPSY TNAGLDTTDL

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 CDHR2 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:

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

- Membrane proteins are fractioned by ultracentrifugation and subsequently solubilized with different detergents (detergent screen). Samples are analyzed by Western blot.
 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

CDHR2

Target:

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Alternative Name:	CDHR2 (CDHR2 Products)
Background:	Intermicrovillar adhesion molecule that forms, via its extracellular domain, calcium-dependent
	heterophilic complexes with CDHR5 on adjacent microvilli. Thereby, controls the packing of
	microvilli at the apical membrane of epithelial cells. Through its cytoplasmic domain, interacts
	with microvillus cytoplasmic proteins to form the intermicrovillar adhesion complex/IMAC. This
	complex plays a central role in microvilli and epithelial brush border differentiation
	(PubMed:24725409). May also play a role in cell-cell adhesion and contact inhibition in epithelial
	cells (PubMed:12117771). {ECO:0000269 PubMed:12117771,
	ECO:0000269 PubMed:24725409}.
Molecular Weight:	140.6 kDa Including tag.
UniProt:	Q9BYE9

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:	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

Application Details

	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

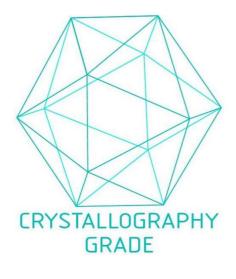


Image 1. "Crystallography Grade" protein due to multi-step, protein-specific purification process