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# **Unc5c Protein (AA 41-931) (rho-1D4 tag)**



**Image** 



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### Overview

Quantity:	1 mg
Target:	Unc5c
Protein Characteristics:	AA 41-931
Origin:	Human
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This Unc5c protein is labelled with rho-1D4 tag.
Application:	ELISA, Western Blotting (WB), Crystallization (Crys), SDS-PAGE (SDS)

## **Product Details**

Sequence:

QDDDFFHELP ETFPSDPPEP LPHFLIEPEE AYIVKNKPVN LYCKASPATQ IYFKCNSEWV
HQKDHIVDER VDETSGLIVR EVSIEISRQQ VEELFGPEDY WCQCVAWSSA GTTKSRKAYV
RIAYLRKTFE QEPLGKEVSL EQEVLLQCRP PEGIPVAEVE WLKNEDIIDP VEDRNFYITI
DHNLIIKQAR LSDTANYTCV AKNIVAKRKS TTATVIVYVN GGWSTWTEWS VCNSRCGRGY
QKRTRTCTNP APLNGGAFCE GQSVQKIACT TLCPVDGRWT PWSKWSTCGT ECTHWRRREC
TAPAPKNGGK DCDGLVLQSK NCTDGLCMQT APDSDDVALY VGIVIAVIVC LAISVVVALF
VYRKNHRDFE SDIIDSSALN GGFQPVNIKA ARQDLLAVPP DLTSAAAMYR GPVYALHDVS
DKIPMTNSPI LDPLPNLKIK VYNTSGAVTP QDDLSEFTSK LSPQMTQSLL ENEALSLKNQ
SLARQTDPSC TAFGSFNSLG GHLIVPNSGV SLLIPAGAIP QGRVYEMYVT VHRKETMRPP
MDDSQTLLTP VVSCGPPGAL LTRPVVLTMH HCADPNTEDW KILLKNQAAQ GQWEDVVVVG
EENFTTPCYI QLDAEACHIL TENLSTYALV GHSTTKAAAK RLKLAIFGPL CCSSLEYSIR
VYCLDDTQDA LKEILHLERQ MGGQLLEEPK ALHFKGSTHN LRLSIHDIAH SLWKSKLLAK

YQEIPFYHVW SGSQRNLHCT FTLERFSLNT VELVCKLCVR QVEGEGQIFQ LNCTVSEEPT GIDLPLLDPA NTITTVTGPS AFSIPLPIRQ KLCSSLDAPQ TRGHDWRMLA HKLNLDRYLN YFATKSSPTG VILDLWEAQN FPDGNLSMLA AVLEEMGRHE TVVSLAAEGQ Y

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 UNC5C 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:

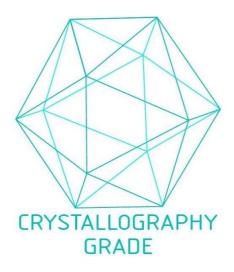
- 1. Membrane proteins are fractioned by ultracentrifugation and subsequently solubilized with different detergents (detergent screen). Samples are analyzed by Western blot.
- 2. The best performing detergent is used for solubilization and the proteins are purified via their rho1D4 tag via two rho1D4 antibody columns: one DTT resistant, the other one not. Eluate fractions are analyzed by Western blot.
- 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.

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:	Unc5c
Alternative Name:	UNC5C (Unc5c Products)
Background:	Receptor for netrin required for axon guidance. Mediates axon repulsion of neuronal growth cones in the developing nervous system upon ligand binding. Axon repulsion in growth cones may be caused by its association with DCC that may trigger signaling for repulsion. Also involved in corticospinal tract axon guidances independently of DCC. It also acts as a dependence receptor required for apoptosis induction when not associated with netrin ligand. {ECO:0000250 UniProtKB:008747}.
Molecular Weight:	100.4 kDa Including tag.
UniProt:	O95185
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 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