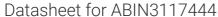
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ROBO3 Protein (AA 21-1386) (rho-1D4 tag)





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Overview

Quantity:	1 mg
Target:	ROBO3
Protein Characteristics:	AA 21-1386
Origin:	Human
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This ROBO3 protein is labelled with rho-1D4 tag.
Application:	Western Blotting (WB), ELISA, Crystallization (Crys), SDS-PAGE (SDS)

Product Details

Sequence:

GDISNSSELL LGFNSSLAAL NHTLLPPGDP SLNGSRVGPE DAMPRIVEQP PDLLVSRGEP
ATLPCRAEGR PRPNIEWYKN GARVATVRED PRAHRLLLPS GALFFPRIVH GRRARPDEGV
YTCVARNYLG AAASRNASLE VAVLRDDFRQ SPGNVVVAVG EPAVLECVPP RGHPEPSVSW
RKDGARLKEE EGRITIRGGK LMMSHTLKSD AGMYVCVASN MAGERESAAA EVMVLERPSF
LRRPVNQVVL ADAPVTFLCE VKGDPPPRLR WRKEDGELPT GRYEIRSDHS LWIGHVSAED
EGTYTCVAEN SVGRAEASGS LSVHVPPQLV TQPQDQMAAP GESVAFQCET KGNPPPAIFW
QKEGSQVLLF PSQSLQPTGR FSVSPRGQLN ITAVQRGDAG YYVCQAVSVA GSILAKALLE
IKGASLDGLP PVILQGPANQ TLVLGSSVWL PCRVTGNPQP SVRWKKDGQW LQGDDLQFKT
MANGTLYIAN VQEMDMGFYS CVAKSSTGEA TWSGWLKMRE DWGVSPDPPT EPSSPPGAPS
QPVVTEITKN SITLTWKPNP QTGAAVTSYV IEAFSPAAGN TWRTVADGVQ LETHTVSGLQ
PNTIYLFLVR AVGAWGLSEP SPVSEPVRTQ DSSPSRPVED PWRGQQGLAE VAVRLQEPIV
LGPRTLQVSW TVDGPVQLVQ GFRVSWRVAG PEGGSWTMLD LQSPSQQSTV LRGLPPGTQI

QIKVQAQGQE GLGAESLSVT RSIPEEAPSG PPQGVAVALG GDGNSSITVS WEPPLPSQQN
GVITEYQIWC LGNESRFHLN RSAAGWARSA MLRGLVPGLL YRTLVAAATS AGVGVPSAPV
LVQLPSPPDL EPGLEVGAGL AVRLARVLRE PAFLAGSGAA CGALLLGLCA ALYWRRKQRK
ELSHYTASFA YTPAVSFPHS EGLSGASSRP PMGLGPAPYS WLADSWPHPS RSPSAQEPRG
SCCPSNPDPD DRYYNEAGIS LYLAQTARGT AAPGEGPVYS TIDPAGEELQ TFHGGFPQHP
SGDLGPWSQY APPEWSQGDS GAKGGKVKLL GKPVQMPSLN WPEALPPPPP SCELSCLEGP
EEELEGSSEP EEWCPPMPER SHLTEPSSSG GCLVTPSRRE TPSPTPSYGQ QSTATLTPSP
PDPPQPPTDM PHLHQMPRRV PLGPSSPLSV SQPMLGIREA RPAGLGAGPA ASPHLSPSPA
PSTASSAPGR TWQGNGEMTP PLQGPRARFR KKPKALPYRR ENSPGDLPPP PLPPPEEEAS
WALELRAAGS MSSLERERSG ERKAVQAVPL AAQRVLHPDE EAWLPYSRPS FLSRGQGTST
CSTAGSNSSR GSSSSRGSRG PGRSRSRSQS RSQSQRPGQK RREEPR

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 ROBO3 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. 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 ROBO3 Target: Alternative Name: ROBO3 (ROBO3 Products) Background: Thought to be involved during neural development in axonal navigation at the ventral midline of the neural tube. In spinal chord development plays a role in guiding commissural axons probably by preventing premature sensitivity to Slit proteins thus inhibiting Slit signaling through ROBO1 (By similarity). Required for hindbrain axon midline crossing. {ECO:0000250, ECO:0000269|PubMed:15105459}. Molecular Weight: 147.0 kDa Including tag. UniProt: Q96MS0 **Application Details** In addition to the applications listed above we expect the protein to work for functional studies **Application Notes:** 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

receive your protein of interest.

increase solubility. We will discuss all possible options with you in detail to assure that you

Application Details

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

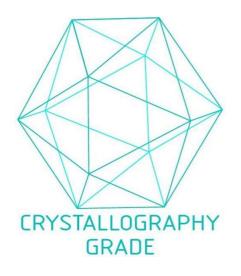


Image 1. "Crystallography Grade" protein due to multi-step, protein-specific purification process