Datasheet for ABIN3134627

DCC Protein (AA 26-1447) (rho-1D4 tag)

1 Image

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Overview

Quantity:	1 mg
Target:	DCC
Protein Characteristics:	AA 26-1447
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This DCC protein is labelled with rho-1D4 tag.
Application:	Western Blotting (WB), ELISA, Crystallization (Crys), SDS-PAGE (SDS)

Product Details

Sequence:	HLQVTGFQIK PFTSLHFVSE PSDAVTMRGG NVLLNCSAES DRGVPVIKWK KDGLILALGM DDRKQQLPNG SLLIQNILHS RHHKPDEGLY QCEASLADSG SIISRTAKVT VAGPLRFLSQ TESITAFMGD TVLLKCEVIG EPMPTIHWQK NQQDLNPLPG DSRVVVLPSG ALQISRLQPG DSGVYRCSAR NPASIRTGNE AEVRILSDPG LHRQLYFLQR PSNVIAIEGK DAVLECCVSG YPPPSFTWLR GEEVIQLRSK KYSLLGGSNL LISNVTDDDS GTYTCVVTYK NENISASAEL TVLVPPWFLN HPSNLYAYES MDIEFECAVS GKPVPTVNWM KNGDVVIPSD YFQIVGGSNL RILGVVKSDE GFYQCVAENE AGNAQSSAQL IVPKPAIPSS SILPSAPRDV LPVLVSSRFV RLSWRPPAEA KGNIQTFTVF FSREGDNRER ALNTTQPGSL QLTVGNLKPE AMYTFRVVAY NEWGPGESSQ PIKVATQPEL QVPGPVENLH AVSTSPTSIL ITWEPPAYAN GPVQGYRLFC TEVSTGKEQN IEVDGLSYKL EGLKKFTEYT LRFLAYNRYG PGVSTDDITV VTLSDVPSAP PQNISLEVVN SRSIKVSWLP PPSGTQNGFI TGYKIRHRKT TRRGEMETLE PNNLWYLFTG LEKGSQYSFQ VSAMTVNGTG PPSNWYTAET PENDLDESQV PDQPSSLHVR PQTNCIIMSW

TPPLNPNIVV RGYIIGYGVG SPYAETVRVD SKQRYYSIER LESSSHYVIS LKAFNNAGEG VPLYESATTR SITDPTDPVD YYPLLDDFPT SGPDVSTPML PPVGVQAVAL THEAVRVSWA DNSVPKNQKT SDVRLYTVRW RTSFSASAKY KSEDTTSLSY TATGLKPNTM YEFSVMVTKN RRSSTWSMTA HATTYEAAPT SAPKDLTVIT REGKPRAVIV SWQPPLEANG KITAYILFYT LDKNIPIDDW IMETISGDRL THQIMDLSLD TMYYFRIQAR NVKGVGPLSD PILFRTLKVE HPDKMANDQG RHGDGGYWPV DTNLIDRSTL NEPPIGQMHP PHGSVTPQKN SNLLVITVVT VGVLTVLVVV IVAVICTRRS SAQQRKKRAT HSVSKRKGSQ KDLRPPDLWI HHEEMEMKNI EKPTGTDPAG RDSPIQSCQD LTPVSHSQSE TQMGSKSASH SGQDTEDAGS SMSTLERSLA ARRATRAKLM IPMEAQSSNP AVVSAIPVPT LESAQYPGIL PSPTCGYPHP QFTLRPVPFP TLSVDRGFGA GRTQSVSEGP TTQQQPMLPP AQPEHPSSEE APSRTIPTAC VRPTHPLRSF ANPLLPPPMS AIEPKVPYTP LLSQPGPTLP KTHVKTASLG LAGKARSPLL PVSVPTAPEV SEESHKPTED PASVYEQDDL SEQMASLEGL MKQLNAITGS AF

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 Dcc 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.

Product Details

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

Target:	DCC
Alternative Name:	Dcc (DCC Products)
Background:	Receptor for netrin required for axon guidance. Mediates axon attraction of neuronal growth cones in the developing nervous system upon ligand binding. Its association with UNC5 proteins may trigger signaling for axon repulsion. It also acts as a dependence receptor required for apoptosis induction when not associated with netrin ligand. Implicated as a tumor suppressor gene.
Molecular Weight:	156.9 kDa Including tag.
UniProt:	P70211
Pathways:	Regulation of Cell Size

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:	Protein has not been tested for activity yet. In cases in which it is highly likely that the

Application Details

	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

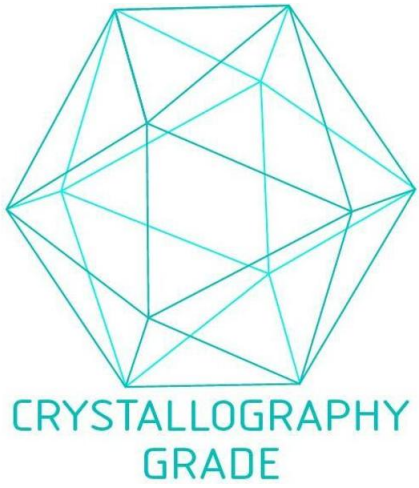

Image 1. „Crystallography Grade“ protein due to multi-step, protein-specific purification process