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Neurexin 1 Protein (NRXN1) (AA 31-1514) (rho-1D4 tag)



Overview

Quantity:	1 mg
Target:	Neurexin 1 (NRXN1)
Protein Characteristics:	AA 31-1514
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This Neurexin 1 protein is labelled with rho-1D4 tag.
Application:	ELISA, Western Blotting (WB), Crystallization (Crys), SDS-PAGE (SDS)

Product Details

Sequence:

LEFPGAEGQW TRFPKWNACC ESEMSFQLKT RSARGLVLYF DDEGFCDFLE LILTRGGRLQ
LSFSIFCAEP ATLLADTPVN DGAWHSVRIR RQFRNTTLYI DRAEAKWVEV KSKRRDMTVF
SGLFVGGLPP ELRAAALKLT LASVREREPF KGWIRDVRVN SSQALPVDGG EVKLDDEPPN
SGGGSPCEAG EEGEGGVCLN GGVCSVVDDQ AVCDCSRTGF RGKDCSQEDN NVEGLAHLMM
GDQGKSKGKE EYIATFKGSE YFCYDLSQNP IQSSSDEITL SFKTLQRNGL MLHTGKSADY
VNLALKNGAV SLVINLGSGA FEALVEPVNG KFNDNAWHDV KVTRNLRQHS GIGHAMVNKL
HCSVTISVDG ILTTTGYTQE DYTMLGSDDF FYVGGSPSTA DLPGSPVSNN FMGCLKEVVY
KNNDVRLELS RLAKQGDPKM KIHGVVAFKC ENVATLDPIT FETPESFISL PKWNAKKTGS
ISFDFRTTEP NGLILFSHGK PRHQKDAKHP QMIKVDFFAI EMLDGHLYLL LDMGSGTIKI
KALQKKVNDG EWYHVDFQRD GRSGTISVNT LRTPYTAPGE SEILDLDDEL YLGGLPENKA
GLVFPTEVWT ALLNYGYVGC IRDLFIDGQS KDIRQMAEIQ STAGVKPSCS KETAKPCLSN
PCKNNGMCRD GWNRYVCDCS GTGYLGRSCE REATVLSYDG SMFMKIQLPV VMHTEAEDVS

LRFRSQRAYG ILMATTSRDS ADTLRLELDA GRVKLTVNLD CIRINCNSSK GPETLFAGYN
LNDNEWHTVR VVRRGKSLKL TVDDQQAMTG QMAGDHTRLE FHNIETGIIT ERRYLSSVPS
NFIGHLQSLT FNGMAYIDLC KNGDIDYCEL NARFGFRNII ADPVTFKTKS SYVALATLQA
YTSMHLFFQF KTTSLDGLIL YNSGDGNDFI VVELVKGYLH YVFDLGNGAN LIKGSSNKPL
NDNQWHNVMI SRDTSNLHTV KIDTKITTQI TAGARNLDLK SDLYIGGVAK ETYKSLPKLV
HAKEGFQGCL ASVDLNGRLP DLISDALFCN GQIERGCEGP STTCQEDSCS NQGVCLQQWD
GFSCDCSMTS FSGPLCNDPG TTYIFSKGGG QITYKWPPND RPSTRADRLA IGFSTVQKEA
VLVRVDSSSG LGDYLELHIH QGKIGVKFNV GTDDIAIEES NAIINDGKYH VVRFTRSGGN
ATLQVDSWPV IERYPAGNND NERLAIARQR IPYRLGRVVD EWLLDKGRQL TIFNSQATII
IGGKEQGQPF QGQLSGLYYN GLKVLNMAAE NDANIAIVGN VRLVGEVPSS MTTESTATAM
QSEMSTSIME TTTTLATSTA RRGKPPTKEP ISQTTDDILV ASAECPSDDE DIDPCEPSSG
GLANPTRVGG REPYPGSAEV IRESSSTTGM VVGIVAAAAL CILILLYAMY KYRNRDEGSY
HVDESRNYIS NSAQSNGAVV KEKQPSSAKS ANKNKKNKDK EYYV

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 Nrxn1 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

Product Details

	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	
Target Details Target:	Neurexin 1 (NRXN1)
	Neurexin 1 (NRXN1) Nrxn1 (NRXN1 Products)
Target:	
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Target Details

Expiry Date:

l arget Details	
	ECO:0000269 PubMed:17035546, ECO:0000269 PubMed:21410790, ECO:0000269 PubMed:9430716}.
Molecular Weight:	164.3 kDa Including tag.
UniProt:	Q9CS84
Pathways:	Synaptic Membrane, Skeletal Muscle Fiber Development
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 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.

Unlimited (if stored properly)