Datasheet for ABIN3094275 Neurexin 1 Protein (NRXN1) (AA 31-1401) (His tag)

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Overview

Quantity:	1 mg
Target:	Neurexin 1 (NRXN1)
Protein Characteristics:	AA 31-1401
Origin:	Human
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This Neurexin 1 protein is labelled with His tag.
Application:	ELISA, Western Blotting (WB), Crystallization (Crys), SDS-PAGE (SDS)

## Product Details

Sequence:	LEFPGAEGQW TRFPKWNACC ESEMSFQLKT RSARGLVLYF DDEGFCDFLE LILTRGGRLQ
	LSFSIFCAEP ATLLADTPVN DGAWHSVRIR RQFRNTTLFI DQVEAKWVEV KSKRRDMTVF
	SGLFVGGLPP ELRAAALKLT LASVREREPF KGWIRDVRVN SSQVLPVDSG EVKLDDEPPN
	SGGGSPCEAG EEGEGGVCLN GGVCSVVDDQ AVCDCSRTGF RGKDCSQEDN NVEGLAHLMM
	GDQGKSKGKE EYIATFKGSE YFCYDLSQNP IQSSSDEITL SFKTLQRNGL MLHTGKSADY
	VNLALKNGAV SLVINLGSGA FEALVEPVNG KFNDNAWHDV KVTRNLRQHS GIGHAMVTIS
	VDGILTTTGY TQEDYTMLGS DDFFYVGGSP STADLPGSPV SNNFMGCLKE VVYKNNDVRL
	ELSRLAKQGD PKMKIHGVVA FKCENVATLD PITFETPESF ISLPKWNAKK TGSISFDFRT
	TEPNGLILFS HGKPRHQKDA KHPQMIKVDF FAIEMLDGHL YLLLDMGSGT IKIKALLKKV
	NDGEWYHVDF QRDGRSGTIS VNTLRTPYTA PGESEILDLD DELYLGGLPE NKAGLVFPTE
	VWTALLNYGY VGCIRDLFID GQSKDIRQMA EVQSTAGVKP SCSKETAKPC LSNPCKNNGM
	CRDGWNRYVC DCSGTGYLGR SCEREATVLS YDGSMFMKIQ LPVVMHTEAE DVSLRFRSQR

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	AYGILMATTS RDSADTLRLE LDAGRVKLTV NLDCIRINCN SSKGPETLFA GYNLNDNEWH
	TVRVVRRGKS LKLTVDDQQA MTGQMAGDHT RLEFHNIETG IITERRYLSS VPSNFIGHLQ
	SLTFNGMAYI DLCKNGDIDY CELNARFGFR NIIADPVTFK TKSSYVALAT LQAYTSMHLF
	FQFKTTSLDG LILYNSGDGN DFIVVELVKG YLHYVFDLGN GANLIKGSSN KPLNDNQWHN
	VMISRDTSNL HTVKIDTKIT TQITAGARNL DLKSDLYIGG VAKETYKSLP KLVHAKEGFQ
	GCLASVDLNG RLPDLISDAL FCNGQIERGC EGPSTTCQED SCSNQGVCLQ QWDGFSCDCS
	MTSFSGPLCN DPGTTYIFSK GGGQITYKWP PNDRPSTRAD RLAIGFSTVQ KEAVLVRVDS
	SSGLGDYLEL HIHQGKIGVK FNVGTDDIAI EESNAIINDG KYHVVRFTRS GGNATLQVDS
	WPVIERYPAG RQLTIFNSQA TIIIGGKEQG QPFQGQLSGL YYNGLKVLNM AAENDANIAI
	VGNVRLVGEV PSSMTTESTA TAMQSEMSTS IMETTTTLAT STARRGKPPT KEPISQTTDD
	ILVASAECPS DDEDIDPCEP SSGGLANPTR AGGREPYPGS AEVIRESSST T
	Sequence without tag. Tag location is at the discretion of the manufacturer. If you have a
	special request, please contact us.
Characteristics:	<ul> <li>Made in Germany - from design to production - by highly experienced protein experts.</li> <li>Human NRXN1 Protein (raised in Insect Cells) purified by multi-step, protein-specific process to ensure crystallization grade.</li> <li>State-of-the-art algorithm used for plasmid design (Gene synthesis).</li> </ul>
	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:	Two step purification of proteins expressed in baculovirus infected SF9 insect cells:

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	<ol> <li>In a first purification step, the protein is purified from the cleared cell lysate using three different His-tag capture materials: high yield, EDTA resistant, or DTT resistant. Eluate fractions are analyzed by SDS-PAGE.</li> <li>Protein containing fractions of the best purification are subjected to second purification step through size exclusion chromatography. Eluate fractions are analyzed by SDS-PAGE and Western blot.</li> </ol>
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:	Neurexin 1 (NRXN1)
Alternative Name:	NRXN1 (NRXN1 Products)
Background:	Cell surface protein involved in cell-cell-interactions, exocytosis of secretory granules and
	regulation of signal transmission. Function is isoform-specific. Alpha-type isoforms have a long
	N-terminus with six laminin G-like domains and play an important role in synaptic signal
	transmission. Alpha-type isoforms play a role in the regulation of calcium channel activity and
	Ca(2+)-triggered neurotransmitter release at synapses and at neuromuscular junctions. They
	play an important role in Ca(2+)-triggered exocytosis of secretory granules in pituitary gland.
	They may effect their functions at synapses and in endocrine cells via their interactions with
	proteins from the exocytotic machinery. Likewise, alpha-type isoforms play a role in regulating
	the activity of postsynaptic NMDA receptors, a subtype of glutamate-gated ion channels. Both
	alpha-type and beta-type isoforms may play a role in the formation or maintenance of synaptic
	junctions via their calcium-dependent interactions (via the extracellular domains) with
	neuroligin family members, CBLN1 or CBLN2. In vitro, triggers the de novo formation of
	presynaptic structures. May be involved in specification of excitatory synapses. Alpha-type
	isoforms were first identified as receptors for alpha-latrotoxin from spider venom (By
	similarity). {ECO:0000250}.
Molecular Weight:	151.3 kDa Including tag.
UniProt:	Q9ULB1
Pathways:	Synaptic Membrane, Skeletal Muscle Fiber Development

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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.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	Unlimited (if stored properly)