Datasheet for ABIN3135653

Neuroligin 2 Protein (NLGN2) (AA 15-678) (His tag)

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1 Image

Overview

Quantity:	1 mg
Target:	Neuroligin 2 (NLGN2)
Protein Characteristics:	AA 15-678
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This Neuroligin 2 protein is labelled with His tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB), Crystallization (Crys), ELISA

Product Details

Sequence:	QRGGGGPGGG APGGPGLGLG SLGEERFPVV NTAYGRVRGV RRELNNEILG PVVQFLGVPY ATPPLGARRF QPPEAPASWP GVRNATTLPP ACPQNLHGAL PAIMLPVWFT DNLEAAATYV QNQSEDCLYL NLYVPTEDGP LTKKRDEATL NPPDTDIRDS GKKPVMLFLH GGSYMEGTGN MFDGSVLAAY GNVIVVTLNY RLGVLGFLST GDQAAKGNYG LLDQIQALRW LSENIAHFGG DPERITIFGS GAGASCVNLL ILSHHSEGLF QKAIAQSGTA ISSWSVNYQP LKYTRLLAAK VGCDREDSTE AVECLRRKSS RELVDQDVQP ARYHIAFGPV VDGDVVPDDP EILMQQGEFL NYDMLIGVNQ GEGLKFVEDS AESEDGVSAS AFDFTVSNFV DNLYGYPEGK DVLRETIKFM YTDWADRDNG EMRRKTLLAL FTDHQWVAPA VATAKLHADY QSPVYFYTFY HHCQAEGRPE WADAAHGDEL PYVFGVPMVG ATDLFPCNFS KNDVMLSAVV MTYWTNFAKT GDPNQPVPQD TKFIHTKPNR FEEVVWSKFN SKEKQYLHIG LKPRVRDNYR ANKVAFWLEL VPHLHNLHTE LFTTTTRLPP YATRWPPRTP GPGTSGTRRP PPPATLPPES DIDLGPRAYD RFPGDSRDYS TELS **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 Nlgn2 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:	Two step purification of proteins expressed in baculovirus infected SF9 insect cells: 1. 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. 2. 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.
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

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Target Details

Target:	Neuroligin 2 (NLGN2)
Alternative Name:	Nlgn2 (NLGN2 Products)
Background:	Transmembrane scaffolding protein involved in cell-cell interactions via its interactions with neurexin family members. Mediates cell-cell interactions both in neurons and in other types of cells, such as Langerhans beta cells. Mediates cell-cell interactions between Langerhans beta cells and modulates insulin secretion (By similarity). Plays a role in synapse function and synaptic signal transmission, especially via gamma-aminobutyric acid receptors (GABA(A) receptors). Functions by recruiting and clustering synaptic proteins. Promotes clustering of postsynaptic GABRG2 and GPHN. Modulates signaling by inhibitory synapses, and thereby plays a role in controlling the ratio of signaling by excitatory and inhibitory synapses and information processing. Required for normal signal amplitude from inhibitory synapses, but is not essential for normal signal frequency. May promote the initial formation of synapses, but is not essential for this. In vitro, triggers the de novo formation of presynaptic structures. {ECO:0000250, ECO:0000269|PubMed:10892652, ECO:0000269|PubMed:15620359, ECO:0000269|PubMed:16982420, ECO:0000269|PubMed:19553444, ECO:0000269|PubMed:19889999, ECO:0000269|PubMed:20530218}.
Molecular Weight:	74.2 kDa Including tag.
UniProt:	Q69ZK9
Pathways:	Cell-Cell Junction Organization, Synaptic Membrane

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

Handling

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

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