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# Plexin A3 Protein (PLXNA3) (AA 1242-1872) (His tag)





#### Overview

Quantity:	1 mg
Target:	Plexin A3 (PLXNA3)
Protein Characteristics:	AA 1242-1872
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This Plexin A3 protein is labelled with His tag.
Application:	ELISA, Western Blotting (WB), Crystallization (Crys), SDS-PAGE (SDS)

#### **Product Details**

Sequence:

AYKRKTQDAD RTLKRLQLQM DNLESRVALE CKEAFAELQT DINELTNHMD GVQIPFLDYR
TYAVRVLFPG IEAHPVLKEL DTPPNVEKAL RLFGQLLHSR AFLLTFIHTL EAQSSFSMRD
RGTVASLTMV ALQSRLDYAT GLLKQLLADL IEKNLESKNH PKLLLRRTES VAEKMLTNWF
TFLLHKFLKE CAGEPLFLLY CAIKQQMEKG PIDAITGEAR YSLSEDKLIR QQIDYKTLTL
HCVCPESEGS AQVPVKVLNC DSITQAKDKL LDTVYKGIPY SQRPKAEDMD LEWRQGRMAR
IILQDEDITT KIECDWKRVN SLAHYQVTDG SLVALVPKQV SAYNMANSFT FTRSLSRYES
LLRAASSPDS LRSRAPMLTP DQEAGTKLWH LVRNHDHTDH REGDRGSKMV SEIYLTRLLA
TKGTLQKFVD DLFETVFSTA HRGSALPLAI KYMFDFLDEQ ADQRQISDPD VRHTWKSNCL
PLRFWVNVIK NPQFVFDIHK NSITDACLSV VAQTFMDSCS TSEHRLGKDS PSNKLLYAKD
IPNYKSWVER YYRDIAKMAS ISDQDMDAYL VEQSRLHAND FNVLSALSEL YFYVTKYRQE
ILTSLDRDAS CRKHKLRQKL EQIITLVSSS S

Sequence without tag. Tag location is at the discretion of the manufacturer. If you have a

# **Product Details** special request, please contact us. Characteristics: · Made in Germany - from design to production - by highly experienced protein experts. · Mouse Plxna3 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.

>95 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot. Purity: 0.22 µm filtered Sterility: Endotoxin Level: Protein is endotoxin free. Grade: Crystallography grade

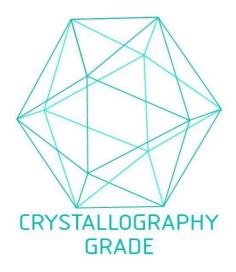
## **Target Details**

Target:	Plexin A3 (PLXNA3)
Alternative Name:	Plxna3 (PLXNA3 Products)
Background:	Coreceptor for SEMA3A and SEMA3F. Necessary for signaling by class 3 semaphorins and subsequent remodeling of the cytoskeleton. Plays a role in axon guidance in the developing
	nervous system. Regulates the migration of sympathetic neurons, but not of neural crest
	precursors. Required for normal dendrite spine morphology in pyramidal neurons. May play a
	role in regulating semaphorin-mediated programmed cell death in the developing nervous
	system. Class 3 semaphorins bind to a complex composed of a neuropilin and a plexin. The
	plexin modulates the affinity of the complex for specific semaphorins, and its cytoplasmic
	domain is required for the activation of down-stream signaling events in the cytoplasm.
	{ECO:0000269 PubMed:11683995, ECO:0000269 PubMed:18262512,
	ECO:0000269 PubMed:18804103, ECO:0000269 PubMed:19020035,
	ECO:0000269 PubMed:19717441, ECO:0000269 PubMed:20010807}.
Molecular Weight:	73.4 kDa Including tag.
UniProt:	P70208
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
	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

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