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## Datasheet for ABIN3094714 Plexin A4 Protein (PLXNA4) (AA 24-1237) (His tag)



Overview

Image

Quantity:	1 mg
Target:	Plexin A4 (PLXNA4)
Protein Characteristics:	AA 24-1237
Origin:	Human
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This Plexin A4 protein is labelled with His tag.
Application:	SDS-PAGE (SDS), Crystallization (Crys), ELISA, Western Blotting (WB)

## Product Details

Sequence:	TLLTRQPAPL SQKQRSFVTF RGEPAEGFNH LVVDERTGHI YLGAVNRIYK LSSDLKVLVT
	HETGPDEDNP KCYPPRIVQT CNEPLTTTNN VNKMLLIDYK ENRLIACGSL YQGICKLLRL
	EDLFKLGEPY HKKEHYLSGV NESGSVFGVI VSYSNLDDKL FIATAVDGKP EYFPTISSRK
	LTKNSEADGM FAYVFHDEFV ASMIKIPSDT FTIIPDFDIY YVYGFSSGNF VYFLTLQPEM
	VSPPGSTTKE QVYTSKLVRL CKEDTAFNSY VEVPIGCERS GVEYRLLQAA YLSKAGAVLG
	RTLGVHPDDD LLFTVFSKGQ KRKMKSLDES ALCIFILKQI NDRIKERLQS CYRGEGTLDL
	AWLKVKDIPC SSALLTIDDN FCGLDMNAPL GVSDMVRGIP VFTEDRDRMT SVIAYVYKNH
	SLAFVGTKSG KLKKIRVDGP RGNALQYETV QVVDPGPVLR DMAFSKDHEQ LYIMSERQLT
	RVPVESCGQY QSCGECLGSG DPHCGWCVLH NTCTRKERCE RSKEPRRFAS EMKQCVRLTV
	HPNNISVSQY NVLLVLETYN VPELSAGVNC TFEDLSEMDG LVVGNQIQCY SPAAKEVPRI
	ITENGDHHVV QLQLKSKETG MTFASTSFVF YNCSVHNSCL SCVESPYRCH WCKYRHVCTH
	DPKTCSFQEG RVKLPEDCPQ LLRVDKILVP VEVIKPITLK AKNLPQPQSG QRGYECILNI

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	QGSEQRVPAL RFNSSSVQCQ NTSYSYEGME INNLPVELTV VWNGHFNIDN PAQNKVHLYK
	CGAMRESCGL CLKADPDFAC GWCQGPGQCT LRQHCPAQES QWLELSGAKS KCTNPRITEI
	IPVTGPREGG TKVTIRGENL GLEFRDIASH VKVAGVECSP LVDGYIPAEQ IVCEMGEAKP
	SQHAGFVEIC VAVCRPEFMA RSSQLYYFMT LTLSDLKPSR GPMSGGTQVT ITGTNLNAGS
	NVVVMFGKQP CLFHRRSPSY IVCNTTSSDE VLEMKVSVQV DRAKIHQDLV FQYVEDPTIV
	RIEPEWSIVS GNTPIAVWGT HLDLIQNPQI RAKHGGKEHI NICEVLNATE MTCQAPALAL
	GPDHQSDLTE RPEEFGFILD NVQSLLILNK TNFTYYPNPV FEAFGPSGIL ELKPGTPIIL
	KGKNLIPPVA GGNVKLNYTV LVGEKPCTVT VSDVQLLCES PNLIGRHKVM ARVGGMEYSP
	GMVYIAPDSP LSLP
	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 PLXNA4 Protein (raised in Insect Cells) purified by multi-step, protein-specific process to ensure crystallization grade.</li> </ul>
	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

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	<ul> <li>fractions are analyzed by SDS-PAGE.</li> <li>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.</li> </ul>
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:	Plexin A4 (PLXNA4)
Alternative Name:	PLXNA4 (PLXNA4 Products)
Background:	Coreceptor for SEMA3A. Necessary for signaling by class 3 semaphorins and subsequent remodeling of the cytoskeleton. Plays a role in axon guidance 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 (By similarity). {ECO:0000250}.
Molecular Weight:	136.0 kDa Including tag.
UniProt:	Q9HCM2
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:	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

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receive your protein of interest.

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## 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

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