

Datasheet for ABIN3134688 Neuropilin 1 Protein (NRP1) (AA 22-923) (rho-1D4 tag)



Overview

Quantity:	1 mg
Target:	Neuropilin 1 (NRP1)
Protein Characteristics:	AA 22-923
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This Neuropilin 1 protein is labelled with rho-1D4 tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB), ELISA, Crystallization (Crys)

Product Details

Sequence:	FRSDKCGGTI KIENPGYLTS PGYPHSYHPS EKCEWLIQAP EPYQRIMINF NPHFDLEDRD
	CKYDYVEVID GENEGGRLWG KFCGKIAPSP VVSSGPFLFI KFVSDYETHG AGFSIRYEIF
	KRGPECSQNY TAPTGVIKSP GFPEKYPNSL ECTYIIFAPK MSEIILEFES FDLEQDSNPP
	GGMFCRYDRL EIWDGFPEVG PHIGRYCGQK TPGRIRSSSG VLSMVFYTDS AIAKEGFSAN
	YSVLQSSISE DFKCMEALGM ESGEIHSDQI TASSQYGTNW SVERSRLNYP ENGWTPGEDS
	YKEWIQVDLG LLRFVTAVGT QGAISKETKK KYYVKTYRVD ISSNGEDWIS LKEGNKAIIF
	QGNTNPTDVV LGVFSKPLIT RFVRIKPVSW ETGISMRFEV YGCKITDYPC SGMLGMVSGL
	ISDSQITASN QADRNWMPEN IRLVTSRTGW ALPPSPHPYT NEWLQVDLGD EKIVRGVIIQ
	GGKHRENKVF MRKFKIAYSN NGSDWKTIMD DSKRKAKSFE GNNNYDTPEL RTFSPLSTRF
	IRIYPERATH SGLGLRMELL GCEVEAPTAG PTTPNGNPVD ECDDDQANCH SGTGDDFQLT
	GGTTVLATEK PTIIDSTIQS EFPTYGFNCE FGWGSHKTFC HWEHDSHAQL RWSVLTSKTG
	PIQDHTGDGN FIYSQADENQ KGKVARLVSP VVYSQSSAHC MTFWYHMSGS HVGTLRVKLR

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	YQKPEEYDQL VWMVVGHQGD HWKEGRVLLH KSLKLYQVIF EGEIGKGNLG GIAVDDISIN
	NHISQEDCAK PTDLDKKNTE IKIDETGSTP GYEGEGEGDK NISRKPGNVL KTLDPILITI
	IAMSALGVLL GAVCGVVLYC ACWHNGMSER NLSALENYNF ELVDGVKLKK DKLNPQSNYS EA
	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 Nrp1 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:	Three step purification of membrane proteins expressed in baculovirus infected SF9 insect cells:
	 Membrane proteins are fractioned by ultracentrifugation and subsequently solubilized with different detergents (detergent screen). Samples are analyzed by Western blot. 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. 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.

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Product Details	
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:	Neuropilin 1 (NRP1)
Alternative Name:	Nrp1 (NRP1 Products)
Background:	Receptor involved in the development of the cardiovascular system, in angiogenesis, in the formation of certain neuronal circuits and in organogenesis outside the nervous system. It mediates the chemorepulsant activity of semaphorins. It binds to semaphorin 3A, the PLGF-2 isoform of PGF, the VEGF-165 isoform of VEGF and VEGF-B. Coexpression with KDR results in increased VEGF-165 binding to KDR as well as increased chemotaxis. It may regulate VEGF-induced angiogenesis (By similarity). {ECO:0000250}.
Molecular Weight:	102.1 kDa Including tag.
UniProt:	P97333
Pathways:	Regulation of Cell Size, Signaling Events mediated by VEGFR1 and VEGFR2, Smooth Muscle Cell Migration, Platelet-derived growth Factor Receptor Signaling, VEGFR1 Specific Signals
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

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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)