

Datasheet for ABIN3113111 NPR2 Protein (AA 23-1047) (rho-1D4 tag)



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Quantity:	1 mg
Target:	NPR2
Protein Characteristics:	AA 23-1047
Origin:	Human
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This NPR2 protein is labelled with rho-1D4 tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB), ELISA, Crystallization (Crys)

Product Details

Sequence:

RNLTLAVVLP EHNLSYAWAW PRVGPAVALA VEALGRALPV DLRFVSSELE GACSEYLAPL
SAVDLKLYHD PDLLLGPGCV YPAASVARFA SHWRLPLLTA GAVASGFSAK NDHYRTLVRT
GPSAPKLGEF VVTLHGHFNW TARAALLYLD ARTDDRPHYF TIEGVFEALQ GSNLSVQHQV
YAREPGGPEQ ATHFIRANGR IVYICGPLEM LHEILLQAQR ENLTNGDYVF FYLDVFGESL
RAGPTRATGR PWQDNRTREQ AQALREAFQT VLVITYREPP NPEYQEFQNR LLIRAREDFG
VELGPSLMNL IAGCFYDGIL LYAEVLNETI QEGGTREDGL RIVEKMQGRR YHGVTGLVVM
DKNNDRETDF VLWAMGDLDS GDFQPAAHYS GAEKQIWWTG RPIPWVKGAP PSDNPPCAFD
LDDPSCDKTP LSTLAIVALG TGITFIMFGV SSFLIFRKLM LEKELASMLW RIRWEELQFG
NSERYHKGAG SRLTLSLRGS SYGSLMTAHG KYQIFANTGH FKGNVVAIKH VNKKRIELTR
QVLFELKHMR DVQFNHLTRF IGACIDPPNI CIVTEYCPRG SLQDILENDS INLDWMFRYS
LINDLVKGMA FLHNSIISSH GSLKSSNCVV DSRFVLKITD YGLASFRSTA EPDDSHALYA
KKLWTAPELL SGNPLPTTGM OKADVYSFGI ILQEIALRSG PFYLEGLDLS PKEIVOKVRN

GQRPYFRPSI DRTQLNEELV LLMERCWAQD PAERPDFGQI KGFIRRFNKE GGTSILDNLL
LRMEQYANNL EKLVEERTQA YLEEKRKAEA LLYQILPHSV AEQLKRGETV QAEAFDSVTI
YFSDIVGFTA LSAESTPMQV VTLLNDLYTC FDAIIDNFDV YKVETIGDAY MVVSGLPGRN
GQRHAPEIAR MALALLDAVS SFRIRHRPHD QLRLRIGVHT GPVCAGVVGL KMPRYCLFGD
TVNTASRMES NGQALKIHVS STTKDALDEL GCFQLELRGD VEMKGKGKMR TYWLLGERKG
PPGLL

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.
- Human NPR2 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:

- 1. Membrane proteins are fractioned by ultracentrifugation and subsequently solubilized with different detergents (detergent screen). Samples are analyzed by Western blot.
- 2. 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

Troduct Details		
	fractions are analyzed by Western blot. 3. 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.	
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:	NPR2	
Alternative Name:	NPR2 (NPR2 Products)	
Background:	Receptor for the C-type natriuretic peptide NPPC/CNP hormone. Has guanylate cyclase activity upon binding of its ligand. May play a role in the regulation of skeletal growth. {ECO:0000269 PubMed:15146390, ECO:0000269 PubMed:1672777, ECO:0000269 PubMed:24001744, ECO:0000269 PubMed:24471569}.	
Molecular Weight:	116.1 kDa Including tag.	
UniProt:	P20594	
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 guarantee 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:		

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)	