Datasheet for ABIN3112917 INSRR Protein (AA 27-1297) (rho-1D4 tag)

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Overview

Quantity:	1 mg
Target:	INSRR
Protein Characteristics:	AA 27-1297
Origin:	Human
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This INSRR protein is labelled with rho-1D4 tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA, Crystallization (Crys)

Product Details

Sequence:	VEVCPSLDIR SEVAELRQLE NCSVVEGHLQ ILLMFTATGE DFRGLSFPRL TQVTDYLLLF
	RVYGLESLRD LFPNLAVIRG TRLFLGYALV IFEMPHLRDV ALPALGAVLR GAVRVEKNQE
	LCHLSTIDWG LLQPAPGANH IVGNKLGEEC ADVCPGVLGA AGEPCAKTTF SGHTDYRCWT
	SSHCQRVCPC PHGMACTARG ECCHTECLGG CSQPEDPRAC VACRHLYFQG ACLWACPPGT
	YQYESWRCVT AERCASLHSV PGRASTFGIH QGSCLAQCPS GFTRNSSSIF CHKCEGLCPK
	ECKVGTKTID SIQAAQDLVG CTHVEGSLIL NLRQGYNLEP QLQHSLGLVE TITGFLKIKH
	SFALVSLGFF KNLKLIRGDA MVDGNYTLYV LDNQNLQQLG SWVAAGLTIP VGKIYFAFNP
	RLCLEHIYRL EEVTGTRGRQ NKAEINPRTN GDRAACQTRT LRFVSNVTEA DRILLRWERY
	EPLEARDLLS FIVYYKESPF QNATEHVGPD ACGTQSWNLL DVELPLSRTQ EPGVTLASLK
	PWTQYAVFVR AITLTTEEDS PHQGAQSPIV YLRTLPAAPT VPQDVISTSN SSSHLLVRWK
	PPTQRNGNLT YYLVLWQRLA EDGDLYLNDY CHRGLRLPTS NNDPRFDGED GDPEAEMESD
	CCPCQHPPPG QVLPPLEAQE ASFQKKFENF LHNAITIPIS PWKVTSINKS PQRDSGRHRR

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	cells:
Purification:	Three step purification of membrane proteins expressed in baculovirus infected SF9 insect
	the Expasy's protparam tool to determine the absorption coefficient of each protein.
	The concentration of the protein is calculated using its specific absorption coefficient. We use
	specific reference buffer.
	The protein's absorbance will be measured in several dilutions and is measured against its
	The concentration of our recombinant proteins is measured using the absorbance at 280nm.
	protein experts will do everything to make sure that you receive the protein you ordered.
	folded protein. With no financial risk on your end you can rest assured that our experienced
	When you order this made-to-order protein you will only pay upon receival of the correctly
	experiments or purification optimization).
	custom-made proteins, e.g. fees might apply for the expression plasmid, the first expression
	(other companies might charge you for any performed steps in the expression process for
	cannot be expressed or purified. In the unlikely event that the protein cannot be expressed or purified we do not charge anythin
	made proteins from other companies is that there is no financial obligation in case the protein
	The big advantage of ordering our made-to-order proteins in comparison to ordering custom
	experts in the lab will ensure that you receive a correctly folded protein.
	This protein is a made to order protein and will be made for the first time for your order. Our
	to ensure crystallization grade.State-of-the-art algorithm used for plasmid design (Gene synthesis).
	Human INSRR Protein (raised in Insect Cells) purified by multi-step, protein-specific proces to ensure crystallization grade
Characteristics:	• Made in Germany - from design to production - by highly experienced protein experts.
	special request, please contact us.
	Sequence without tag. Tag location is at the discretion of the manufacturer. If you have a
	DCSPQNGGPG H
	RCWQPNPRLR PSFTHILDSI QEELRPSFRL LSFYYSPECR GARGSLPTTD AEPDSSPTPR
	GIFTTHSDVW SFGVVLWEIV TLAEQPYQGL SNEQVLKFVM DGGVLEELEG CPLQLQELMS
	AANKFVHRDL AARNCMVSQD FTVKIGDFGM TRDVYETDYY RKGGKGLLPV RWMAPESLKD
	GVVSQGQPTL VIMELMTRGD LKSHLRSLRP EAENNPGLPQ PALGEMIQMA GEIADGMAYL
	QGSFGMVYEG LARGLEAGEE STPVALKTVN ELASPRECIE FLKEASVMKA FKCHHVVRLL
	TPVGLTLLIV LAALGFFYGK KRNRTLYASV NPEYFSASDM YVPDEWEVPR EQISIIRELG
	RLRYAKFGGV HLALLPPGNY SARVRATSLA GNGSWTDSVA FYILGPEEED AGGLHVLLTA
	ARTMPHREAD GIPGKVAWEA SSKNSVLLRW LEPPDPNGLI LKYEIKYRRL GEEATVLCVS
	AAGPLRLGGN SSDFEIQEDK VPRERAVLSG LRHFTEYRID IHACNHAAHT VGCSAATFVF

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	 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.
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:	INSRR
Alternative Name:	INSRR (INSRR Products)
Background:	Receptor with tyrosine-protein kinase activity. Functions as a pH sensing receptor which is activated by increased extracellular pH . Activates an intracellular signaling pathway that involves IRS1 and AKT1/PKB. {ECO:0000269 PubMed:21641549}.
Molecular Weight:	142.1 kDa Including tag.
UniProt:	P14616
Pathways:	RTK Signaling

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 receive your protein of interest.

Restrictions:

For Research Use only

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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)