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Datasheet for ABIN3115751 AQPEP Protein (AA 2-990) (rho-1D4 tag)



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Quantity:	1 mg
Target:	AQPEP
Protein Characteristics:	AA 2-990
Origin:	Human
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This AQPEP protein is labelled with rho-1D4 tag.
Application:	ELISA, Western Blotting (WB), Crystallization (Crys), SDS-PAGE (SDS)

Product Details

Sequence:	GPPSSSGFYV SRAVALLLAG LVAALLLALA VLAALYGHCE RVPPSELPGL RDLEAESSPP
	LRQKPTPTPK PSSARELAVT TTPSNWRPPG PWDQLRLPPW LVPLHYDLEL WPQLRPDELP
	AGSLPFTGRV NITVRCTVAT SRLLLHSLFQ DCERAEVRGP LSPGTGNATV GRVPVDDVWF
	ALDTEYMVLE LSEPLKPGSS YELQLSFSGL VKEDLREGLF LNVYTDQGER RALLASQLEP
	TFARYVFPCF DEPALKATFN ITMIHHPSYV ALSNMPKLGQ SEKEDVNGSK WTVTTFSTTP
	HMPTYLVAFV ICDYDHVNRT ERGKEIRIWA RKDAIANGSA DFALNITGPI FSFLEDLFNI
	SYSLPKTDII ALPSFDNHAM ENWGLMIFDE SGLLLEPKDQ LTEKKTLISY VVSHEIGHQW
	FGNLVTMNWW NNIWLNEGFA SYFEFEVINY FNPKLPRNEI FFSNILHNIL REDHALVTRA
	VAMKVENFKT SEIQELFDIF TYSKGASMAR MLSCFLNEHL FVSALKSYLK TFSYSNAEQD
	DLWRHFQMAI DDQSTVILPA TIKNIMDSWT HQSGFPVITL NVSTGVMKQE PFYLENIKNR
	TLLTSNDTWI VPILWIKNGT TQPLVWLDQS SKVFPEMQVS DSDHDWVILN LNMTGYYRVN
	YDKLGWKKLN QQLEKDPKAI PVIHRLQLID DAFSLSKNNY IEIETALELT KYLAEEDEII

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	VWHTVLVNLV TRDLVSEVNI YDIYSLLKRY LLKRLNLIWN IYSTIIRENV LALQDDYLAL
	ISLEKLFVTA CWLGLEDCLQ LSKELFAKWV DHPENEIPYP IKDVVLCYGI ALGSDKEWDI
	LLNTYTNTTN KEEKIQLAYA MSCSKDPWIL NRYMEYAIST SPFTSNETNI IEVVASSEVG
	RYVAKDFLVN NWQAVSKRYG TQSLINLIYT IGRTVTTDLQ IVELQQFFSN MLEEHQRIRV
	HANLQTIKNE NLKNKKLSAR IAAWLRRNT
	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 LVRN 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
	fractions are analyzed by Western blot.

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Product Details

	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:	AQPEP
Alternative Name:	LVRN (AQPEP Products)
Background:	Metalloprotease which may be important for placentation by regulating biological activity of key peptides at the embryo-maternal interface. On synthetic substrates it shows a marked preference for Leu-4-methylcoumaryl-7-amide (Leu-MCA) over Met-MCA, Arg-LCA and Lys-LCA. Cleaves the N-terminal amino acid of several peptides such as angiotensin-3, kisspeptin-10 and endokinin C. {ECO:0000269 PubMed:17525158}.
Molecular Weight:	114.3 kDa Including tag.
UniProt:	Q6Q4G3
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:	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)