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Datasheet for ABIN3113215 PTPRE Protein (AA 20-700) (rho-1D4 tag)



Overview

Image

Quantity:	1 mg
Target:	PTPRE
Protein Characteristics:	AA 20-700
Origin:	Human
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This PTPRE protein is labelled with rho-1D4 tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA, Crystallization (Crys)

Product Details

Sequence:	LRGNETTADS NETTTTSGPP DPGASQPLLA WLLLPLLLLL LVLLLAAYFF RFRKQRKAVV
	STSDKKMPNG ILEEQEQQRV MLLSRSPSGP KKYFPIPVEH LEEEIRIRSA DDCKQFREEF
	NSLPSGHIQG TFELANKEEN REKNRYPNIL PNDHSRVILS QLDGIPCSDY INASYIDGYK
	EKNKFIAAQG PKQETVNDFW RMVWEQKSAT IVMLTNLKER KEEKCHQYWP DQGCWTYGNI
	RVCVEDCVVL VDYTIRKFCI QPQLPDGCKA PRLVSQLHFT SWPDFGVPFT PIGMLKFLKK
	VKTLNPVHAG PIVVHCSAGV GRTGTFIVID AMMAMMHAEQ KVDVFEFVSR IRNQRPQMVQ
	TDMQYTFIYQ ALLEYYLYGD TELDVSSLEK HLQTMHGTTT HFDKIGLEEE FRKLTNVRIM
	KENMRTGNLP ANMKKARVIQ IIPYDFNRVI LSMKRGQEYT DYINASFIDG YRQKDYFIAT
	QGPLAHTVED FWRMIWEWKS HTIVMLTEVQ EREQDKCYQY WPTEGSVTHG EITIEIKNDT
	LSEAISIRDF LVTLNQPQAR QEEQVRVVRQ FHFHGWPEIG IPAEGKGMID LIAAVQKQQQ
	QTGNHPITVH CSAGAGRTGT FIALSNILER VKAEGLLDVF QAVKSLRLQR PHMVQTLEQY
	EFCYKVVQDF IDIFSDYANF K

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	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 PTPRE 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. 	
Purity:	>95 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.	
Sterility:	0.22 µm filtered	

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Product Details	
Endotoxin Level:	Protein is endotoxin-free.
Grade:	Crystallography grade

Target Details

Target Details		
Target:	PTPRE	
Alternative Name:	PTPRE (PTPRE Products)	
Background:	Isoform 1 plays a critical role in signaling transduction pathways and phosphoprotein network	
	topology in red blood cells. May play a role in osteoclast formation and function (By similarity).	
	{ECO:0000250}., Isoform 2 acts as a negative regulator of insulin receptor (IR) signaling in	
	skeletal muscle. Regulates insulin-induced tyrosine phosphorylation of insulin receptor (IR) and	
	insulin receptor substrate 1 (IRS-1), phosphorylation of protein kinase B and glycogen synthase	
	kinase-3 and insulin induced stimulation of glucose uptake (By similarity). {ECO:0000250}.,	
	Isoform 1 and isoform 2 act as a negative regulator of FceRI-mediated signal transduction	
	leading to cytokine production and degranulation, most likely by acting at the level of SYK to	
	affect downstream events such as phosphorylation of SLP76 and LAT and mobilization of	
	Ca(2+). {ECO:0000250}.	
Molecular Weight:	79.8 kDa Including tag.	
UniProt:	P23469	
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	
Handling		
Format:	Liquid	
Buffer:	100 mM NaCL, 20 mM Hepes, 10% glycerol. pH value is at the discretion of the manufacturer.	

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Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	Unlimited (if stored properly)

Images

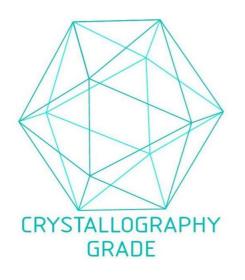


Image 1. "Crystallography Grade" protein due to multi-step, protein-specific purification process