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# PTPRE Protein (AA 69-699) (His tag)



#### Overview

Quantity:	1 mg
Target:	PTPRE
Protein Characteristics:	AA 69-699
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This PTPRE protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA, Crystallization (Crys)

#### **Product Details**

Sequence:

RFRKQRKAVV SSNDKKMPNG ILEEQEQQRV MLLSRSPSGP KKFFPIPVEH LEEEIRVRSA
DDCKRFREEF NSLPSGHIQG TFELANKEEN REKNRYPNIL PNDHCRVILS QVDGIPCSDY
INASYIDGYK EKNKFIAAQG PKQETVNDFW RMVWEQRSAT IVMLTNLKER KEEKCYQYWP
DQGCWTYGNI RVCVEDCVVL VDYTIRKFCI HPQLPDSCKA PRLVSQLHFT SWPDFGVPFT
PIGMLKFLKK VKTLNPSHAG PIVVHCSAGV GRTGTFIVID AMMDMIHSEQ KVDVFEFVSR
IRNQRPQMVQ TDVQYTFIYQ ALLEYYLYGD TELDVSSLER HLQTLHSTAT HFDKIGLEEE
FRKLTNVRIM KENMRTGNLP ANMKKARVIQ IIPYDFNRVI LSMKRGQEFT DYINASFIDG
YRQKDYFMAT QGPLAHTVED FWRMVWEWKS HTIVMLTEVQ EREQDKCYQY WPTEGSVTHG
DITIEIKSDT LSEAISVRDF LVTFKQPLAR QEEQVRMVRQ FHFHGWPEVG IPAEGKGMID
LIAAVQKQQQ QTGNHPITVH CSAGAGRTGT FIALSNILER VKAEGLLDVF QAVKSLRLQR
PHMVQTLEQY EFCYKVVQDF IDIFSDYANF K

Sequence without tag. Tag location is at the discretion of the manufacturer. If you have a

# **Product Details** special request, please contact us. Characteristics: · Made in Germany - from design to production - by highly experienced protein experts. · Mouse 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: Two step purification of proteins expressed in baculovirus infected SF9 insect cells: 1. In a first purification step, the protein is purified from the cleared cell lysate using three different His-tag capture materials: high yield, EDTA resistant, or DTT resistant. Eluate fractions are analyzed by SDS-PAGE. 2. Protein containing fractions of the best purification are subjected to second purification step through size exclusion chromatography. Eluate fractions are analyzed by SDS-PAGE and Western blot.

0.22 µm filtered

Protein is endotoxin free.

Crystallography grade

Purity:

Sterility:

Grade:

Endotoxin Level:

>95 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.

### **Target Details**

Target:	PTPRE
Alternative Name:	Ptpre (PTPRE Products)
Background:	Isoform 1 acts as a negative regulator of insulin receptor (IR) signaling and is involved in
	insulin-induced glucose metabolism mainly through direct dephosphorylation and inactivation
	of IR in hepatocytes and liver (By similarity). Plays a critical role in signaling transduction
	pathways and phosphoprotein network topology in red blood cells. May play a role in osteoclas
	formation and function. {ECO:0000250, ECO:0000269 PubMed:19508371,
	ECO:0000269 PubMed:8610169}., 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., 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+).
Molecular Weight:	74.4 kDa Including tag.
UniProt:	P49446
UniProt: Application Details	P49446
	In addition to the applications listed above we expect the protein to work for functional studies
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# Handling

Storage Comment:	Store at -80°C.
Expiry Date:	Unlimited (if stored properly)