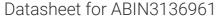
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PTPRT Protein (AA 30-1454) (rho-1D4 tag)





Go to Product page

Overview

Quantity:	1 mg
Target:	PTPRT
Protein Characteristics:	AA 30-1454
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This PTPRT protein is labelled with rho-1D4 tag.
Application:	Crystallization (Crys), ELISA, SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Sequence:

QSAAGGCSFD EHYSNCGYSV ALGTNGFTWE QINTWEKPML DPAVPTGSFM MVNSSGRASG
QKAHLLLPTL KENDTHCIDF HYYFSSRDRS SPGALNVYVK VNGGPQGNPV WNVSGVVTEG
WVKAELAIST FWPHFYQVIF ESVSLKGHPG YIAVDEVRVL AHPCRKAPHF LRLQNVEVNV
GQNATFQCIA GGKWSQHDKL WLQQWNGRDT ALMVTRVVNH RRFSATVSVA DTSQRSISKY
RCVIRSDGGS GVSNYAELIV KEPPTPIAPP ELLAVGATYL WIKPNANSII GDGPIILKEV
EYRTTTGTWA ETHIVDSPNY KLWHLDPDVE YEIRVLLTRP GEGGTGPPGP PLTTRTKCAD
PVHGPQNVEI VDIRARQLTL QWEPFGYAVT RCHSYNLTVQ YQYVFNQQQY EAEEVIQTSS
HYTLRGLRPF MTIRLRLLLS NPEGRMESEE LVVQTEEDVP GAVPLESIQG GPFEEKIYIQ
WKPPNETNGV ITLYEINYKA VGSLDPSADL SSQRGKVFKL RNETHHLFVG LYPGTTYSFT
IKASTAKGFG PPVTTRIATK ISAPSMPEYD ADTPLNETDT TITVMLKPAQ SRGAPVSVYQ
LVVKEERLQK SRRAADIIEC FSVPVSYRNA SNLDSLHYFA AELKPSNLPV TQPFTVGDNK
TYNGYWNPPL SPLKSYSIYF QALSKANGET KINCVRLATK GAPMGSAQVT PGTPLCLLTT

ASTQNSNTVE PEKQVDNTVK MAGVIAGLLM FIIILLGVML TIKRRKLAKK QKETQSGAQR EMGPVASTDK PTAKLGTNRN DEGFSSSSQD VNGFTDGSRG ELSQPTLTIQ THPYRTCDPV EMSYPRDQFQ PAIRVADLLQ HITQMKRGQG YGFKEEYEAL PEGQTASWDT AKEDENRNKN RYGNIISYDH SRVRLLVLDG DPHSDYINAN YIDGYHRPRH YIATQGPMQE TVKDFWRMIW QENSASIVMV TNLVEVGRVK CVRYWPDDTE VYGDIKVTLI ETEPLAEYVI RTFTVQKKGY HEIRELRLFH FTSWPDHGVP CYATGLLGFV RQVKFLNPPE AGPIVVHCSA GAGRTGCFIA IDTMLDMAEN EGVVDIFNCV RELRAQRVNL VQTEEQYVFV HDAILEACLC GNTAIPVCEF RSLYYNISRL DPQTNSSQIK DEFQTLNIVT PRVRPEDCSI GLLPRNHDKN RSMDVLPLDR CLPFLISVDG ESSNYINAAL MDSHKQPAAF VVTQHPLPNT VADFWRLVFD YNCSSVVMLN EMDTAQLCMQ YWPEKTSGCY GPIQVEFVSA DIDEDIIHRI FRICNMARPQ DGYRIVQHLQ YIGWPAYRDT PPSKRSLLKV VRRLEKWQEQ YDGREGRTVV HCLNGGGRSG TFCAICSVCE MIQQQNIIDV FHIVKTLRNN KSNMVETLEQ YKFVYEVALE YLSSF

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.
- Mouse Ptprt 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.

Product Details

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.
	 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:	PTPRT
Alternative Name:	Ptprt (PTPRT Products)
Background:	May be involved in both signal transduction and cellular adhesion in the CNS. May have specific
	signaling roles in the tyrosine phosphorylation/dephosphorylation pathway in the anterior
	compartment of the adult cerebellar cortex.
Molecular Weight:	161.3 kDa Including tag.
UniProt:	Q99M80
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:	Protein has not been tested for activity yet. 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.

Application Details

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

Images

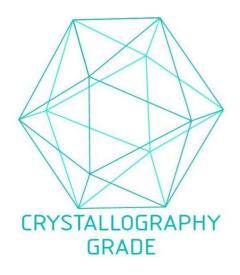


Image 1. "Crystallography Grade" protein due to multi-step, protein-specific purification process