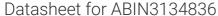
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PTPRG Protein (AA 20-1442) (rho-1D4 tag)





Overview

Quantity:	1 mg
Target:	PTPRG
Protein Characteristics:	AA 20-1442
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This PTPRG protein is labelled with rho-1D4 tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA, Crystallization (Crys)

Product Details

Sequence:

VLHYVVCFPA LTEGYVGTLQ ESRQDSSVQI RRRKASGDPY WAYSGAYGPE HWVTSSVSCG GSHQSPIDIL DHHARVGDEY QELQLDGFDN ESSNKTWMKN TGKTVAILLK DDYFVSGAGL PGRFKAEKVE FHWGHSNGSA GSEHSVNGRR FPVEMQIFFY NPDDFDSFQT AISENRIIGA MAIFFQVSPR DNSALDPIIH GLKGVVHHEK ETFLDPFILR DLLPASLGSY YRYTGSLTTP PCSEIVEWIV FRRPVPISYH QLEAFYSIFT TEQQDHVKSV EYLRNNFRPQ QALNDRVVSK SAVRDAWNHD LADFLDNPLG TEASKVCSSP PIHMKVQPLN QTALQVSWSQ PETIYHPPIM NYMISYSWTK NEDEKEKTFT KDSDKDLKAT ISHVSPDSLY LFRVQAVCRN DMRSDFSQTM LFQANTTRIF QGTRIVKTGV PTASPASSAD MAPISSGSST WTSSGIPFSF VSMATGMGPS SSGSQATVAS VVTSTLLAGL GFGGGGISSF PSTVWPTRLP TASAASKQAG RTVLATTEAL ASPGPDVHSA PSKDSEGTEE GEKEEKSESE DGEREHEEEE KDSEKKEKSE ATHTAAESDR TAPAPTPSSP HRTAAEGGHQ TIPGRRQDHS APATDQPGHV APDLDPLVDT ATQVPPTATE EHYSGSDPRR PEMPSKKPMS RGDRFSEDSK FITVNPAEKN TSGMLSRPSP GRMEWIIPLI

VVSALTFVCL VLLIAVLVYW RGCNKIKSKG FPRRSREVPS SGERGEKGSR KCFQTAHFYV EDSSSPRVVP NESVPIIPIP DDMEAIPVKQ FGKHIGELYS NSQHGFSEDF EEVQRCTADM NITAEHSNHP DNKHKNRYIN ILAYDHSRVK LRPLPGKDSK HSDYINANYV DGYNKAKAYI ATQGPLKSTF EDFWRMIWEQ NTGIIIMITN LVEKGRRKCD QYWPTENTEE YGNIIVTLKS TKVHACYTVR RLSVRNTKVK KGQKGNPKGR QNERTVIQYH YTQWPDMGVP EYALPVLTFV RRSSAARMPD MGPVLVHCSA GVGRTGTYIV IDSMLQQIKD KSTVNVLGFL KHIRTQRNYL VQTEEQYIFI HDALLEAILG KETAVSSSQL HSYVNSILIP GVGGKTRLEK QFKLITQCNA KYVECFSAQK ECNKEKNRNS SVVPAERARV GLAPLPGMKG TDYINASYIM GYYRSNEFII TQHPLPHTTK DFWRMIWDHN AQIIVMLPDN QSLAEDEFVY WPSREESMNC EAFTVTLISK DRLCLSNEEQ IIIHDFILEA TQDDYVLEVR HFQCPKWPNP DAPISSTFEL INVIKEEALT RDGPTIVHDE YGAVSAGMLC ALTTLSQQLE NENAVDVFQV AKMINLMRPG VFTDIEQYQF VYKAMLSLIS TKENGNGPMT GDKNGAVLTA EESDPAESME SLV

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 Ptprg 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.
	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:	PTPRG
Alternative Name:	Ptprg (PTPRG Products)
Background:	Possesses tyrosine phosphatase activity. {ECO:0000250}.
Molecular Weight:	160.0 kDa Including tag.
UniProt:	Q05909
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.
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

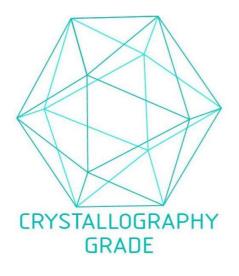


Image 1. "Crystallography Grade" protein due to multi-step, protein-specific purification process