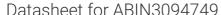
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Proteoglycan 4 Protein (PRG4) (AA 25-1404) (His tag)



Image



Overview

Quantity:	1 mg
Target:	Proteoglycan 4 (PRG4)
Protein Characteristics:	AA 25-1404
Origin:	Human
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This Proteoglycan 4 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA, Crystallization (Crys)

Product Details

Sequence:

QDLSSCAGRC GEGYSRDATC NCDYNCQHYM ECCPDFKRVC TAELSCKGRC FESFERGREC DCDAQCKKYD KCCPDYESFC AEVHNPTSPP SSKKAPPPSG ASQTIKSTTK RSPKPPNKKK TKKVIESEEI TEEHSVSENQ ESSSSSSSS SSSTIRKIKS SKNSAANREL QKKLKVKDNK KNRTKKKPTP KPPVVDEAGS GLDNGDFKVT TPDTSTTQHN KVSTSPKITT AKPINPRPSL PPNSDTSKET SLTVNKETTV ETKETTTTNK QTSTDGKEKT TSAKETQSIE KTSAKDLAPT SKVLAKPTPK AETTTKGPAL TTPKEPTPTT PKEPASTTPK EPTPTTIKSA PTTPKEPAPT TTKSAPTTPK EPAPTTTKEP APTTPKEPAP TTTKEPAPTT TKSAPTTPKE PAPTTPKKPA PTTPKEPAPT TPKEPAPTT PKEPAPTTPK EPAPTTKEP APTTPKEPAP TAPKKPAPTT PKEPAPTTPK EPAPTTTK EPAPTTTKS APTTPKEPSP TTTKEPAPTT PKEPAPTTPK KPAPTTPKEPAP TTTKKPAPTT PKEPAPTTPK ETAPTTPKKL TPTTPEKLAP TTPEKPAPTT PEELAPTTPEEP APTTPKAAAP NTPKEPAPTT PKEPAPTTPK EPAPTTPK EPAPTTPK EPAPTTPK EPAPTTPK EPAPTTPK EPAPTTPK EPAPTTPK EPAPTTPKE APTTPKELAP TTPKKPAPTT PKEPAPTT

TCDKPAPTTP KGTAPTTPKE PAPTTPKEPA PTTPKGTAPT TLKEPAPTTP KKPAPKELAP
TTTKGPTSTT SDKPAPTTPK ETAPTTPKEP APTTPKKPAP TTPETPPPTT SEVSTPTTTK
EPTTIHKSPD ESTPELSAEP TPKALENSPK EPGVPTTKTP AATKPEMTTT AKDKTTERDL
RTTPETTTAA PKMTKETATT TEKTTESKIT ATTTQVTSTT TQDTTPFKIT TLKTTTLAPK
VTTTKKTITT TEIMNKPEET AKPKDRATNS KATTPKPQKP TKAPKKPTST KKPKTMPRVR
KPKTTPTPRK MTSTMPELNP TSRIAEAMLQ TTTRPNQTPN SKLVEVNPKS EDAGGAEGET
PHMLLRPHVF MPEVTPDMDY LPRVPNQGII INPMLSDETN ICNGKPVDGL TTLRNGTLVA
FRGHYFWMLS PFSPPSPARR ITEVWGIPSP IDTVFTRCNC EGKTFFFKDS QYWRFTNDIK
DAGYPKPIFK GFGGLTGQIV AALSTAKYKN WPESVYFFKR GGSIQQYIYK QEPVQKCPGR
RPALNYPVYG ETTQVRRRRF ERAIGPSQTH TIRIQYSPAR LAYQDKGVLH NEVKVSILWR
GLPNVVTSAI SLPNIRKPDG YDYYAFSKDQ YYNIDVPSRT ARAITTRSGQ TLSKVWYNCP

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 PRG4 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:

Restrictions:

	 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. 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.
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:	Proteoglycan 4 (PRG4)
Alternative Name:	PRG4 (PRG4 Products)
Background:	Plays a role in boundary lubrication within articulating joints. Prevents protein deposition onto cartilage from synovial fluid by controlling adhesion-dependent synovial growth and inhibiting the adhesion of synovial cells to the cartilage surface., Isoform F plays a role as a growth factor acting on the primitive cells of both hematopoietic and endothelial cell lineages.
Molecular Weight:	149.3 kDa Including tag.
UniProt:	Q92954
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.
Doctrictions	For December Use only

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

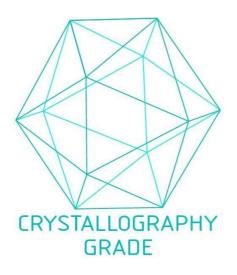


Image 1. "Crystallography Grade" protein due to multi-step, protein-specific purification process