

Recombinant Full Length Human PRG4 Protein, Flag tagged

Cat. No. PRG4-1574HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human PRG4 Protein (1-1404 aa) with Flag tag was expressed in HEK293.
Species	Human
Source	HEK293
ProteinLength	1-1404 aa
Description	The protein encoded by this gene is a large proteoglycan that is synthesized by chondrocytes located at the surface of articular cartilage and by some synovial lining cells. This protein contains both chondroitin sulfate and keratan sulfate glycosaminoglycans. It functions as a boundary lubricant at the cartilage surface and contributes to the elastic absorption and energy dissipation of synovial fluid. Mutations in this gene result in camptodactyly-arthropathy-coxa vara-pericarditis syndrome. Alternative splicing results in multiple transcript variants.
Molecular Mass	152.9 kDa
Endotoxin	< 1 EU/μg of the protein by LAL
Purity	>80% by SDS-PAGE
Note	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process

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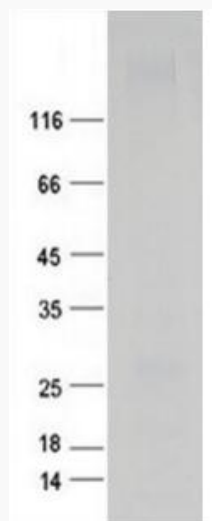
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Storage	Store at -80 centigrade. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles. Stable for at least 1 year from receipt of products under proper storage and handling conditions
Storage Buffer	25mM Tris-HCl, 100mM glycine, and 10% glycerol, pH 7.3
Concentration	0.05 mg/mL determined by Microplate Bradford Protein Assay method
GENE INFORMATION	
Gene Name	PRG4 proteoglycan 4 [Homo sapiens (human)]
Official Symbol	PRG4
Synonyms	PRG4; proteoglycan 4; CACP, proteoglycan 4, (megakaryocyte stimulating factor, articular superficial zone protein, camptodactyly, arthropathy, coxa vara, pericarditis syndrome); articular superficial zone protein; bG174L6.2; bG174L6.2 (MSF: megakaryocyte stimulating factor); camptodactyly; arthropathy; coxa vara; pericarditis syndrome; FLJ32635; HAPO; Jacobs camptodactyly arthropathy pericarditis syndrome; JCAP; lubricin; megakaryocyte stimulating factor; MSF; SZP; superficial zone proteoglycan; megakaryocyte-stimulating factor; CACP
Gene ID	10216
mRNA Refseq	NM_001127708
Protein Refseq	NP_001121180
MIM	604283
UniProt ID	Q92954

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SDS-PAGE

Purified recombinant human PRG4 protein was analyzed by Tricine-SDS-PAGE 12% gel, run with Tris-Glycine running buffer.

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