

Recombinant Human PRG4 Protein, His tagged

Cat. No. PRG4-02H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human PRG4 Protein (1141-1404 aa) with His tag was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	1141-1404 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	31 kDa
AASequence	MHHHHHHDETNICNGKPVDGLTTLRNGTLVAFRGHYFWMLSPFSPSPARRITEVW GIPSPIDTVFTRCNCEGKTFKKDSQYWRFTNDIKDAGYPKPIFKGFGGLTGQIVAAL STAKYKNWPESVYFFKRGGSIQQYIYKQEPVQKCPGRRPALNYPVYGETTQVRRRR FERAIGPSQTHTIRIQYSPARLAYQDKGVLHNEVKVSILWRGLPNVVTSAISLPNIRKP DGYDYAFAFSKDQYYNIDVPSRTARAITTRSGQTLISKVWYNCP

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Purity	> 85% by SDS-PAGE
Storage	Store it under sterile conditions at -20 to -80 centigrade. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
Concentration	0.38 mg/mL by Bradford
Storage Buffer	Sterile 0.5M Gua-Hcl, 20mM Tris, 500mM NaCl, 0.5M Arginine, pH10.3
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

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