

Recombinant Human PRG4 Protein, His tagged

Cat. No. PRG4-01H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human PRG4 Protein (25-199 aa) with His tag was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	25-199 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	20 kDa
AASequence	MQDLSSCAGRCGEGYSRDATCNCQHYMECCPDFKRVCTAELSCKGRCFES FERGRECDCAQCKKYDKCCPDYESFCAEVHNPTSPSSSKKAPPPSGASQTIKSTT KRSPKPPNKKKTKKVIESEEITEEHSVSENQESSSSSSSSSSSTIRKIKSSKNSAAN RELQKKLKHSHHHHH
Purity	> 85% by SDS-PAGE

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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	0.17 mg/mL by BCA
Storage Buffer	Sterile 50mM Tris, 250mM NaCl, pH 7.6
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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