

Recombinant Human PRG4 protein, His-tagged

Cat. No. PRG4-361H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human PRG4(Val1151~Gly1241) fused with His tag at N-terminal was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	1151-1241 a.a.
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.
Form	Supplied as lyophilized form in PBS, pH7.4, containing 5% trehalose, 0.01% sarcosyl.
Molecular Mass	11.6kDa
AA Sequence	MGHHHHHSG S-VDGLTTLRNG TLVAFRGHYF WMLSPFSPPS PARRITEVWG IPSPIDTVFT RCNCEGKTFF FKDSQYWRFT NDIKDAGYPK PIFKGFGLT G
Endotoxin	<1.0EU per 1g (determined by the LAL method)

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Applications	SDS-PAGE; WB; ELISA; IP.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8 centigrade for one month. Aliquot and store at -80 centigrade for 12 months.
Reconstitution	Reconstitute in sterile PBS, pH7.2-pH7.4.

GENE INFORMATION

Gene Name	PRG4 proteoglycan 4 [Homo sapiens]
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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Chromosome Location	1q25-q31
Function	polysaccharide binding; scavenger receptor activity;

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