

## Recombinant Human PRG4 Protein, His tagged

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

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant Human PRG4 Protein (25-199 aa) with His tag was expressed in E. coli.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Source</b>           | E.coli                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>ProteinLength</b>    | 25-199 aa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Description</b>      | <p>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.</p> |
| <b>Molecular Mass</b>   | 20 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>AASequence</b>       | <p>MQDLSSCAGRCGEGYSRDATCNCQHYMECCPDFKRVCTAELSCKGRCFES<br/> FERGRECDCAQCKKYDKCCPDYESFCAEVHNPTSPSSSKKAPPPSGASQTIKSTT<br/> KRSPKPPNKKKTKKVIESEEITEEHSVSEHQESSSSSSSSSSSTIRKIKSSKNSAAN<br/> RELQKKLKHSHHHHH</p>                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Purity</b>           | > 85% by SDS-PAGE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |

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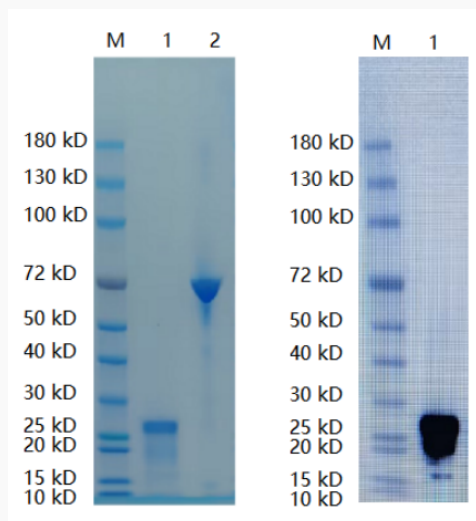
|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Storage</b>          | 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.                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Concentration</b>    | 0.17 mg/mL by BCA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Storage Buffer</b>   | Sterile 50mM Tris, 250mM NaCl, pH 7.6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>GENE INFORMATION</b> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Gene Name</b>        | PRG4 proteoglycan 4 [ Homo sapiens (human) ]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Official Symbol</b>  | PRG4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Synonyms</b>         | 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 |
| <b>Gene ID</b>          | 10216                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>mRNA Refseq</b>      | NM_001127708                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Protein Refseq</b>   | NP_001121180                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>MIM</b>              | 604283                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>UniProt ID</b>       | Q92954                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |

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## SDS-PAGE and WB



Reducing 12% SDS-PAGE (CBB stained) and WB (Anti-His Mouse Monoclonal Antibody) analysis profiles of purified LUB-N. 1. LUB-N 2. BSA

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