

Proteoglycan 4 Protein, Human, Recombinant (His)

General Information

Synonyms:	Proteoglycan 4;Superficial zone proteoglycan;Megakaryocyte-stimulating factor;SZP;PRG4;Lubricin;MSF
Protein Construction:	25-156 aa
Species:	Human
Expression Host:	P. pastoris (Yeast)
Accession:	Q92954
Molecular Weight:	16.8 kDa (predicted)
AA Sequence:	QDLSSCAGRCGEGYSRDATCNCNDYNCQHMECCPDFKRVCTAELSCKGRFCFESFERGRECDCAQCKKYDKCCPDYESFCAEVHNPTSPSSKKAPPPSGASQTIKSTTKRSPKPPNKKKTKKVIIESEEITE

QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	> 85% as determined by SDS-PAGE.
Endotoxin:	< 1.0 EU/ μ g of the protein as determined by the LAL method.
Formulation:	Tris-based buffer, 50% glycerol

Preparation and Storage

Reconstitution:

Reconstitute the lyophilized protein in distilled water. The product concentration should not be less than 100 μ g/ml. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months.

Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

Plays a role in boundary lubrication within articulating joints. Prevents protein deposition onto cartilage from synovial fluid by controlling adhesion-dependent synovial growth and inhibiting the adhesion of synovial cells to the cartilage surface.; Isoform F plays a role as a growth factor acting on the primitive cells of both hematopoietic and endothelial cell lineages.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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