

Recombinant Human Biglycan/BGN Protein

Catalog No.: RP00141 **Recombinant**

Sequence Information

Species	Gene ID	Swiss Prot
Human	633	P21810

Tags

C-His

Synonyms

BGN;DSPG1;MRLS;PG-S1;PGI;SEMDX;SLRR1A;biglycan

Product Information

Source	Purification
HEK293 cells	> 80% by SDS-PAGE.

Endotoxin

< 0.1 EU/μg of the protein by LAL method.

Formulation

Lyophilized from a 0.22 μm filtered solution of PBS, pH 7.4. Contact us for customized product form or formulation.

Reconstitution

Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stabilizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

Background

Biglycan, also known as PG I, is a secreted chondroitin/dermatan sulfate proteoglycan in the small leucine-rich proteoglycan (SLRP) family. The protein plays a role in bone growth, muscle development and regeneration, and collagen fibril assembly in multiple tissues. This protein may also regulate inflammation and innate immunity. Additionally, it may contribute to atherosclerosis and aortic valve stenosis in human patients.

Basic Information

Description

Recombinant Human Biglycan/BGN Protein is produced by HEK293 expression system. The target protein is expressed with sequence (Asp38-Lys368) of human Biglycan/BGN (Accession #NP_001702.1) fused with a 6×His tag at the C-terminus.

Bio-Activity

Storage

Store the lyophilized protein at -20°C to -80 °C for long term. After reconstitution, the protein solution is stable at -20 °C for 3 months, at 2-8 °C for up to 1 week. Avoid repeated freeze/thaw cycles.

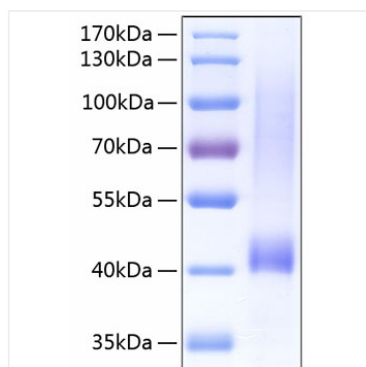
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Validation Data



Recombinant Human Biglycan/BGN Protein was determined by SDS-PAGE with Coomassie Blue, showing a band at 40-50 kDa.