Recombinant Human Biglycan/BGN Protein

Catalog No.: RP00141

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Sequence Information

Species
Human

Gene ID
633

Swiss Prot
P21810

Tags
C-His

Synonyms
BGN,DSPG1,MRLS,PG-S1,PGI, SEMDX,SLRR1A,biglycan

Product Information

Source
HEK293 cells

Purification
≥ 85% as determined by SDS-PAGE.

Calculated MW
38.08 kDa

Observed MW
40-50 kDa

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 stablizer (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 is 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.

Activity
1.Measured by its ability to inhibit the cell growth of mouse 3T3-L1 mouse embryonic fibroblast adipose-like cells. The ED_{50} for this effect is 0.492-1.966 μg/mL, corresponding to a specific activity of 508.6~2034.6 units/mg.
2.Measured by its ability to inhibit the cell growth of mouse NIH3T3. The ED_{50} for this effect is 0.375-1.500 μg/mL, corresponding to a specific activity of 666.7~2666.7 units/mg.

Shipping
Lyophilized proteins are shipped at ambient temperature.
Liquid proteins are shipped at frozen temperature with dry ice.
Upon receipt, store it immediately at the temperature recommended below.

Storage
Store at -20℃

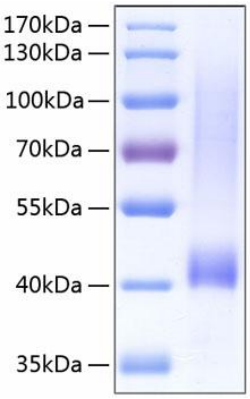
Operational Notes
For your safety and health, please wear a lab coat and disposable gloves for handling.

Contact

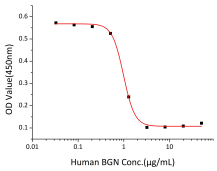
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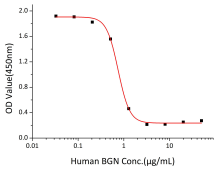
Validation Data



Recombinant Human Biglycan/BGN Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.



Measured by its ability to inhibit the cell growth of mouse 3T3-L1 mouse embryonic fibroblast adipose-like cells. The ED_{50} for this effect is 0.492-1.966 μg/mL, corresponding to a specific activity of 508.6~2034.6 units/mg.



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