



[Go to Product page](#)

Datasheet for ABIN7519707
Biglycan Protein (BGN) (His tag)

Overview

Quantity:	100 µg
Target:	Biglycan (BGN)
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This Biglycan protein is labelled with His tag.

Product Details

Purpose:	Recombinant Human Biglycan/BGN Protein
Sequence:	DEEASGADTS GVLDPDSVTP TYSAMCPFGC HCHLRVVQCS DLGLKSVPE ISPDTLLDL QNNDISELRK DDFKGLQHLY ALVLVNNKIS KIHEKAFSPL RKLQKLYISK NHLVEIPPNL PSSLVELRIH DNRIRKVPKG VFSGLRNMNC IEMGGNPLEN SGFEPGAFDG LKLNLYRISE AKLTGIPKDL PETLNELHLD HNKIQAIELE DLLRYSKLYR LGLGHNQIRM IENGSLFLP TLRELHLDNN KLARVPSGLP DLKLLQVVYL HSNNITKGVG NDFCPMGFGV KRAYYNGISL FNNPVPYWEV QPATFRCVTD RLAIQFGNYK K
Specificity:	Asp38-Lys368
Purity:	> 80 % by SDS-PAGE.
Sterility:	0.22 µm filtered
Endotoxin Level:	< 0.1 EU/µg of the protein by LAL method.

Target Details

Target:	Biglycan (BGN)
Alternative Name:	Biglycan/BGN (BGN Products)
Background:	<p>Description: 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.</p> <p>Name: BGN,DSPG1,MRLS,PG-S1,PGI,SEMDX,SLRR1A,biglycan</p>
Gene ID:	633
UniProt:	P21810
Pathways:	Glycosaminoglycan Metabolic Process

Application Details

Restrictions:	For Research Use only
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Handling

Format:	Lyophilized
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.
Buffer:	Lyophilized from a 0.22 µm filtered solution of PBS, pH 7.4.
Storage:	-20 °C,-80 °C
Storage Comment:	<p>Store the lyophilized protein at -20°C to -80 °C for long term.</p> <p>After reconstitution, the protein solution is stable at -20 °C for 3 months, at 2-8 °C for up to 1 week.</p>