

Active Recombinant Full Length Human BGN Protein, His tagged

Cat. No. BGN-13HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Active Recombinant human BGN protein (38-368 aa), fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.
Species	Human
Source	Insect Cells
ProteinLength	1-368 aa
Description	This gene encodes a member of the small leucine-rich proteoglycan (SLRP) family of proteins. The encoded preproprotein is proteolytically processed to generate the mature protein, which 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, the encoded protein may contribute to atherosclerosis and aortic valve stenosis in human patients. This gene and the related gene decorin are thought to be the result of a gene duplication.
Form	Liquid
Bio-activity	Measured in inhibit the cell growth using 3T3-L1 mouse embryonic fibroblast adipose-like cells. The ED50 range $\leq 20 \mu\text{g/mL}$.
AASequence	DEEASGADTSGVLPDPSVTPTYSAMCPFGCHCHLRVVQCSDLGLKSVPKEISPDTT

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LLDLQNNDISELRKDDFKGLQHLYALVLVNNKISKIHEKAFSPRLKLQKLYISKNLHVEI
PPNLPSSLVELRIHDNRIRKVPKGVFSGLRNMNCIEMGGNPLENSGFEPGAFDGLKL
NYLRISEAKLTGIPKDLPETLNELHLDHNKIQAIELEDLLRYSKLYRLGLGHNQIRMIEN
GSLSFLPTLRELHLDNNKLARVPSGLPDLKLLQVVYLHSNNITKVGVNDFCPMGFGV
KRAYYNGISLFNNPVPYWEVQPATFRCVTDRLAIQFGNYKK

Molecular Mass	38.3 kDa
Endotoxin	< 1 EU/μg of protein (determined by LAL method)
Purity	> 90% by SDS-PAGE
Application	SDS-PAGE, Bioactivity
Note	For research use only. This product is not intended or approved for human, diagnostics or veterinary use.
Storage	Can be stored at +2 to +8 centigrade for 1 week. For long term storage, aliquot and store at -20 to -80 centigrade. Avoid repeated freezing and thawing cycles.
Storage Buffer	Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol
Concentration	0.5 mg/mL (determined by absorbance at 280nm)
Reference	1. Sun H., et al, (2016) Arch Gynecol Obstet. 293:429-438. 2. Gaspar R., et al, (2016) J Mol Cell Cardiol. 99:138-150.

GENE INFORMATION

Gene Name BGN biglycan [Homo sapiens (human)]

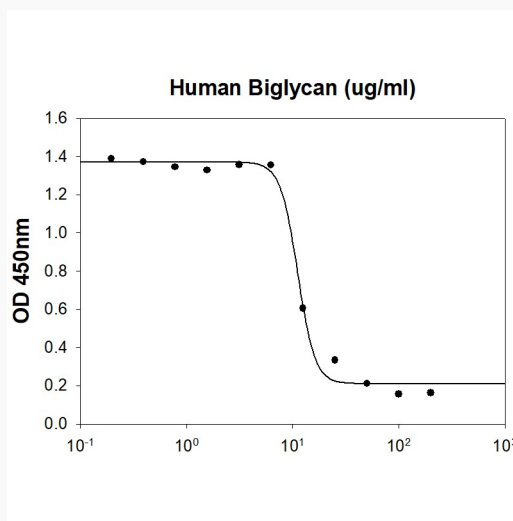
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Official Symbol	BGN
Synonyms	BGN; biglycan; biglycan proteoglycan; DSPG1; SLRR1A; bone/cartilage proteoglycan I; bone/cartilage proteoglycan-I; small leucine-rich protein 1A; dermatan sulphate proteoglycan I; PGI; PG-S1
Gene ID	633
mRNA Refseq	NM_001711
Protein Refseq	NP_001702
MIM	301870
UniProt ID	P21810

Biological Activity



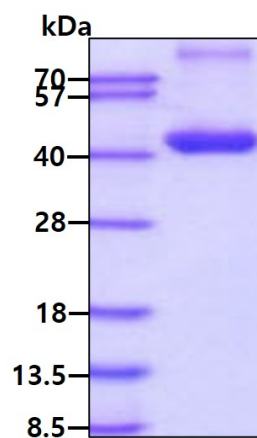
Human Biglycan in inhibit the cell growth using 3T3-L1 mouse embryonic fibroblast adipose-like cells. The ED50 range $\leq 20 \mu\text{g/mL}$.

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SDS-PAGE



3 μ g by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

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