

Recombinant Human BGN, His-tagged

Cat. No. BGN-43H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human Biglycan is produced with our mammalian expression system in human cells. The target protein is expressed with sequence (Glu20-Lys368) of Human BGN fused with a polyhistidine tag at the C-terminus.
Species	Human
Source	HEK293
ProteinLength	20-368 a.a.
Description	Biglycan is a 200-350 kD proteoglycan consisting of a 45 kD core protein and two chondroitin/dermatan sulfate glycosaminoglycan chains. Biglycan binds to TGF- β . It also binds to collagen type I in low ionic strength (less than 3 mM phosphate) buffer. At higher ionic strengths, Biglycan does not bind to collagen type I. It enhances the inhibition effect of TGF- β on osteoclast proliferation at a concentration of 4-20 mg/ml. It also prevents the attachment of CHO cells to fibronectin, with a 50% inhibition at 17-21 mg/ml.
Form	Lyophilized from a 0.2 μ M filtered solution of 20mM PB, 150mM NaCl, pH 7.2
AA Sequence	EQRGFWDFTLDDGPFMMNDEEASGADTSGVLDPDSVTPTYSAMCPFGCHCHLRV VQCSDLGLKSV PKEISPDTTLLDLQNNDISELRKDDFKGLQHLYALVLVNNKISKIHE KAFSPLRKLQKLYISKNH LVEIPPNLPSLVELRIHDNRIRKVPKGVFSGLRNMNCIE MGGNPLENSGFEPGAFDGLKLNLYR ISEAKLTGIPKDLPETLNELHLDHNKIQAIIELE DLLRYSKLYRLGLGHNQIRMIENGSLSLFLPTL RELHLDNNKLARVPSGLPDLKLLQVV

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YLHSNNITKVGVNDFCPMGFGVKRAYYNGISLFNNPVPY WEVQPATFRCVTDLAI
QFGNYKKVDHHHHHH

Endotoxin

Less than 0.1 ng/μg (1 IEU/μg).

Purity

Greater than 95% as determined by SEC-HPLC and reducing SDS-PAGE.

Storage

Lyophilized protein should be stored at Reconstituted protein solution can be stored at 4-7°C for 2-7 days. Aliquots of reconstituted samples are stable at

Reconstitution

Always centrifuge tubes before opening. Do not mix by vortex or pipetting. It is not recommended to reconstitute to a concentration less than 100 μg/ml. Dissolve the lyophilized protein in 1X PBS. Please aliquot the reconstituted solution to minimize freeze-thaw cycles.

GENE INFORMATION

Gene Name

BGN biglycan [Homo sapiens]

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

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MIM	301870
UniProt ID	P21810
Chromosome Location	Xq28
Function	extracellular matrix binding; extracellular matrix structural constituent; glycosaminoglycan binding;

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