

Recombinant Human BGN, His-tagged

Cat. No. BGN-7544H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human BGN protein, fused to His-tag at N-terminus, was expressed in E.coli.
Species	Human
Source	E.coli
ProteinLength	38-368aa
Antigen Description	BGN, also known as biglycan, is a small cellular or pericellular matrix proteoglycan that is closely related in structure to two other small proteoglycans, decorin and fibromodulin. This protein plays a role in assembly of collagen fibrils and muscle regeneration. It interacts with several proteins involved in muscular dystrophy, including alpha-dystroglycan, alpha- and gamma-sarcoglycan and collagen VI, and it is critical for the assembly of the dystrophin-associated protein complex.
Form	Liquid. 20mM Tris-HCl buffer (pH8.0) containing 10% glycerol 0.4M Urea
Molecular Mass	39.5 kDa(352aa)
AA Sequence	MGSSHHHHHH SSGLVPRGSH MDEEASGADT SGVLPDPSVT PTYSAMCPFG CHCHLRVVQC SDLGLKSVPK EISPDITLLD LQNNDISELR KDDFKGLQHL YALVLVNNKI SKIHEKAFSP LRKLQKLYIS KNHLVEIPPN LPSSLVELRI HDNRIRKVPK GVFSGLRNMN CIEMGGNPLE NSGFEPGAFD GLKLNYLRIS EAKLTGIPKD LPETLNELHL DHNKIQAIEL EDLLRYSKLY RLGLGHNQIR

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

MIENGSLSF LPTLRELHLDN NKLARVPSGL PDLKLLQVVY LHSNNITKVG
VNDFCPMGFG VKRAYYNGIS LFNNPVPYWE VQPATFRCVT DRLAIQFGNY KK

Purity >85% as determined by SDS - PAGE

Applications SDS-PAGE

Storage Can be stored at 4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

Concentration 1 mg/ml

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

MIM 301870

UniProt ID P21810

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Chromosome Location	Xq28
Function	extracellular matrix binding; extracellular matrix structural constituent; glycosaminoglycan binding;

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