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## Product Data Sheet

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Product Name: BGN Human  
 Cat. No.: GP22873  
 Batch No.: 1

### Product Data

Purity	>98%	Source	E.coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	DSPG1; PG-S1; PGI; SLRR1A; Biglycan; Bone/cartilage proteoglycan I; BGN.		
Amino Acid Sequence	MGSSHHHHHH SSGLVPRGSH MDEEASGADT SGVLDPDSVT PTYSAMCPFG CHCHLRVVQC SDLGLKSVPK EISPDITLLD LQNNDISELR KDDFKGLQHL YALVLVNNKI SKIHEKAFSP LRLKQKLYIS KNHLVEIPPV LPSSLVELRI HDNRIRKVPK GVFSGLRNMN CIEMGGNPLE NSGFEPGAFD GLKLNLYLRIS EAKLTGIPKD LPETLNELHL DHNKIQAIEL EDLLRYSKLY RLGLGHNQIR MIENGSLSF LPTLRELHLDN NKLARVPSGL PDLKLLQVVY LHSNNITKVG VNDFCPMGFG VKRAYYNGIS LFNNPVPYWE VQPATFRCVT DRLAIQFGNY KK.		
Formulation	BGN protein solution (1mg/ml) containing 20mM Tris-HCl buffer (pH8.0), 10% glycerol and 0.4M Urea.		

### Introduction

Biglycan (BGN) is a small cellular or pericellular matrix proteoglycan which takes part in assembly of collagen fibrils and muscle regeneration. BGN is closely correlated in structure to two other small proteoglycans, decorin and fibromodulin. BGN interacts with several proteins involved in muscular dystrophy, including alpha-dystroglycan, alpha- and gamma-sarcoglycan and collagen VI. BGN is also critical for the assembly of the dystrophin-associated protein complex.

### Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

### Background

**Caution: Product has not been fully validated for medical applications. For research use only.**

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BGN Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 352 amino acids (38-368a.a) and having a molecular mass of 39.5kDa. BGN is fused to a 21 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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