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BGN Human

Catalog #:PRPS-1389

For research use only.

Description: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.

Synonyms:DSPG1, PG-S1, PGI, SLRR1A, Biglycan, Bone/cartilage proteoglycan I, BGN.

Source:E.coli.

Physical Appearance: Sterile Filtered colorless solution.

Amino Acid Sequence:MGSSHHHHHH SSGLVPRGSH MDEEASGADT SGVLDPDSVT PTYSAMCPFG CHCHLRVVQC SDLGLKSVPK EISPDTTLLD LQNNDISELR KDDFKGLQHL YALVLVNNKI SKIHEKAFSP LRKLQKLYIS KNHLVEIPPN LPSSLVELRI HDNRIRKVPK GVFSGLRNMN CIEMGGNPLE NSGFEPGAFD GLKLNYLRIS EAKLTGIPKD LPETLNELHL DHNKIQAIEL ED

Purity: Greater than 85% as determined by SDS-PAGE.

Formulation:
BGN protein solution (1mg/ml) containing 20mM Tris-HCl buffer (pH8.0), 10% glycerol and 0.4M Urea.

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.

Usage:
NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drµgs, agricultural or pesticidal products, food additives or household chemicals.

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.

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