

## 32-13054: BGN Mouse

**Alternative Name :** BGN, DSPG1, MRLS, PG-S1, PGI, SEMDX, SLRR1A, Biglycan, Bone/cartilage proteoglycan I, Biglycan Proteoglycan, MRLS.

### Description

Source: Sf9, Insect cells.

Sterile filtered colorless solution.

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.

BGN produced in Sf9 Insect cells is a single, glycosylated polypeptide chain containing 574 amino acids (38-369 a.a.) and having a molecular mass of 64.6kDa (Molecular size on SDS-PAGE will appear at approximately 50-70kDa). BGN is expressed with a 242 hlgG-His-tag at C-Terminus and purified by proprietary chromatographic Å techniques.

### Product Info

**Amount :** 2 µg / 10 µg

**Purification :** Greater than 90.0% as determined by SDS-PAGE.

**Content :** The BGN solution (0.5mg/ml) contains Phosphate Buffered Saline (pH 7.4) and 10% glycerol.

**Storage condition :** 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.

**Amino Acid :** ADPDEEASGS DTTSGVPDL D SVTPTFSAMC PFGCHCHLRV VQCS DLGLKT VPKEISPDTT LLDLQNNDIS ELRKDDFKGL QHLYALVLVN NKISKIHEKA FSPLRK LQKL YISK NHLVEI PPNLPSSLVE LRIHDNRIRK VPKGVSGLR NMNCIEMGGN PLENSGFEPG AFDGLKLN YLRISEAKLTGI PKDLPETLNE LLDHDKIQA IELEDLLRYS KLYRLGLGHN QIRMIENGL SFLPTLRELH LDNNKLSRVP AGLPDLKLLQ VVYLHSNNIT KVGINDFCPM GFGVKRAYYN GISLFNNPVP YWEVQPATFR CVTDRLAIQF GNYKKLEPKS CDKTHTCPPC PAPELLGGPSVFLFPPKPKD TLMISRTPEV TCVVVDVSHE DPEVKFNWYV DGVEVHNAKT KPREEQYNST YRVVSVLTVL HQDWLNGKEY KCKVSNKALP APIEKTISKA KGQPREPQVY TLPPSRDEL T KNQVSLTCLV KGFYPSDIAV EWESNGQPEN NYKTTPPVLD SDGSFFLYSK LTVDKSRWQQ GNVFSCSVMH EALHNHYTQK SLSLSPGKHH HHHH.