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**Product Data Sheet**


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Product Name: BGN Mouse  
 Cat. No.: GP22875  
 Batch No.: 1

**Product Data**

Purity	>98%	Source	Sf9, Insect cells.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	BGN; DSPG1; MRLS; PG-S1; PGI; SEMDX; SLRR1A; Biglycan; Bone/cartilage proteoglycan I; Biglycan Proteoglycan; MRLS.		
Amino Acid Sequence	ADPDEEASGS DTTSGVPDLD SVTPTFSAMC PFGCHCHLRV VQCSDLGLKT VPKEISPDTT LLDLQNNDIS ELRKDDFKGL QHLYALVLVN NKISKIHEKA FSPLRKLQKL YISKNHLVEI PPNLPSSLVE LRIHDNRIRK VPKGVSGLR NMNCIEMGGN PLENSGFEPG AFDGLKLNLYLRISEAKLTGI PKDLPETLNE LHLDHNKIQA IELEDLLRYS KLYRLGLGHN QIRMIENGSL SFLPTLRELH LDNNKLSRVP AGLPDLKLLQ VVYLHSNNIT KVGINDFCPM GFGVKRAYYN GISLFNNPVP YWEVQPATFR CVTDRLAIQF GNYKKLEPKS CDKTHTCPPC PAPELLGGPSVFLFPPKPKD TLMISRTPEV TCVVVDVSHE DPEVKFNWYV DGVEVHNAKT KPREEQYNST YRVVSVLTVL HQDWLNGKEY KCKVSNKALP APIEKTISKA KGQPREPQVY TLPPSRDELTKNQVSLTCLV KGFYPSDIAV EWESNGQPEN NYKTTTPVLD SDGSFFLYSK LTVDKSRWQQ GNVFSCSVMH EALHNHYTQK SLSLSPGKHH HHHH.		
Formulation	The BGN solution (0.5mg/ml) contains Phosphate Buffered Saline (pH 7.4) and 10% glycerol.		

**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.

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

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Address: 10292 Central Ave. #205, Montclair, CA, USA

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### 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

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 techniques.

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