

RPPB2887

---

## Product Information    Protein Information

**Product SKU:**

RPPB2887

**Accession:**

P21810

**Host:**

Sf9, Insect cells.

**Protein description:**

BGN produced in Sf9 Insect cells is a single, glycosylated polypeptide chain containing 340 amino acids (38-368 a.a.) and having a molecular mass of 38.3kDa (Molecular size on SDS-PAGE will appear at approximately 40-57kDa). BGN is expressed with a 9 amino acid His tag at C-Terminus and purified by proprietary chromatographic techniques.

**Appearance:**

Sterile filtered colorless solution.

**Synonyms:**

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

**Formulation:**

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

**Purity:**

Greater than 90.0% as determined by SDS-PAGE.

**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.

**Amino Acid Sequence:**

ADPDEEASGA DTSGVLDPDS VTPTYSAMCP FGCHCHLRVV QCSDLGLKSV PKEISPD TTL LDLQNNDISE  
LRKDDFKGLQ HLYALVLVNN KISKIHEKAF SPLRKLQKLY ISKNHLVEIP PNLPSSELVEL RIHDNRIRKV  
PKGVSGLRN MNCIEMGGNP LENS GFEPGA FDGLKLNLYR ISEAKLTGIP KDLPETLNEL HLDHNKIQAI  
ELEDLLRYSK LYRLGLGHNQ IRMIENGSL S FLPTLRELHL DNNKLARVPS GLPDLKLLQV VYLHSNNITK  
VGVNDFCPMG FGVKRAYYNG ISLFNNPVY WEVQPATFRC VTDRLAIQFG NYKKHHHHHHH.

**Biological Activity:**

The ED50 for this effect is  $\leq 20$  ug/ml. The specific activity is measured by inhibiting the cell growth using 3T3- L1 mouse embryonic fibroblast adipose-like cells.