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32-13053: BGN Human, Sf9

Application :	Functional Assay
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 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.

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 :	ADPDEEASGA DTSGVLDPDS VTPTYSAMCP FGCHCHLRVV QCSDLGLKSV PKEISPDTTL LDLQNNDISE LRKDDFKGLQ HLYALVLVNN KISKIHEKAF SPLRKLQKLY ISKNHLVEIP PNLPSSLVEL RIHDNRIRKV PKGVFSGLRN MNCIEMGGNP LENSGFEPGA FDGLKLNYLR ISEAKLTGIP KDLPETLNEL HLDHNKIQAI ELEDLLRYSK LYRLGLGHNQ IRMIENGSLS FLPTLRELHL DNNKLARVPS GLPDLKLLQV VYLHSNNITK VGVNDFCPMG FGVKRAYYNG ISLFNNPVPY WEVQPATFRC VTDRLAIQFG NYKKHHHHHH.

Application Note

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

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