
Product Data Sheet

Product Name: BGN Human, Sf9

Cat. No.: GP22874

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
 ADPDEEASGA DTSGVLDPDS VTPTYSAMCP FGCHCHLRVV QCSDLGLKSV
 PKEISPD TTL LDLQNNDISE LRKDDFKGLQ HLYALVLVNN KISKIHEKAF
 SPLRKLQKLY ISKNHLVEIP PNLPSLVEL RIHDNRIRKV PKGVFSGLRN
 MNCIEMGGNP LENS GFPGA FDGLKLNLYR ISEAKLTGIP KDLPETLNEL
 HLDHNKIQAI ELEDLLRYSK LYRLGLGHNQ IRMIENGSL FLPTLRELHL
 DNNKLARVPS GLPDLKLLQV VYLHSNNITK VGVNDFCPMG FGVKRAYYNG
 ISLFNNPVPY WEVQPATFRC VTDRLAIQFG NYKKHHHHHH.

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.

Biological Activity

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

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store. frozen at -20°C for longer

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

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

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

Product Data Sheet

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 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.

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

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

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