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BGN Human, Sf9

Biglycan Human Recombinant, Sf9
RCP0212

Product Overview

Name	BGN Human, Sf9

Description

Biglycan Human Recombinant, Sf9

Accession (Primary)	P21810

Synonyms

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

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.

Source

Sf9, Insect cells.

Physical Appearance

Sterile filtered colorless solution.

Formulation

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

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.

Purity

Greater than 90.0% as determined by SDS-PAGE.

Amino acid sequence

ADP DEEASGA DTSGVLDPDS VTPTYSAMCP FGCHCHLRVV QCSDLGLKSV PKEISPDTTL LDLQNNDISE LRKDDFKGLQ HLYALVLVNN KISKIHEKAF SPLRKLQKLY ISKNHLVEIP PNLPSSLVEL RIHDNRIRKV PKGVFSGLRN MNCIEMGGNP LENSGFEPGA FDGLKLNYLR ISEAKLTGIP KDLPETLNEL HLDHNKIQAI

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ELEDLLRYSK LYRLGLGHNQ IRMIENGSLS FLPTLRELHL DNNKLARVPS GLPDLKLLQV VYLHSNNITK VGVNDFCPMG FGVKRAYYNG ISLFNNPVPY WEVQPATFRC VTDRLAIQFG NYKK HHHHHH .

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.

Precautions

BGN Human, Sf9 is for research use only and not for use in diagnostic or therapeutic procedures.

Target Information: (P21810)