

Recombinant human Biglycan protein

Catalog Number: ATGP3776

PRODUCT INFORMATION

Expression system

Baculovirus

Domain

38-368aa

UniProt No.

P21810

NCBI Accession No.

NP_001702.1

Alternative Names

Biglycan preproprotein, BGN, DSPG1, MRLS, PG-S1, PGI, SEMDX, SLRR1A

PRODUCT SPECIFICATION

Molecular Weight

38.3 kDa (340aa)

Concentration

0.5mg/ml (determined by absorbance at 280nm)

Formulation

Liquid in. Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol

Purity

> 90% by SDS-PAGE

Endotoxin level

< 1 EU per 1ug of protein (determined by LAL method)

Biological Activity

Measured in inhibit the cell growth using 3T3-L1 mouse embryonic fibroblast adipose-like cells. The ED50 range $\leq$ 20ug/ml.

Tag

His-Tag

Application

SDS-PAGE, Bioactivity

Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Recombinant human Biglycan protein

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Description

BGN, also known as biglycan preproprotein, is a small leucine-rich repeat proteoglycan (SLRP). It plays an important role in the development and maintenance of many tissues. Core protein of this protein binds to the growth factors BMP-4 and influences its bioactivity. This protein is also involved in collagen fiber assembly. Recombinant human BGN protein, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.

Amino acid Sequence

<ADP>DEEASGA DTSGLDPPDS VTPTYSAMCP FGCHCHLRVQ QCSDLGLKSV PKEISPD TTL LDLQNNDISE
LRKDDFKGLQ HLYALVLVNN KISKIHEKAF SPLRKQLQKLY ISKNHLVEIP PNLPSSSLVEL RIHDNRIRKV PKGVFSGLRN
MNCIEMGGNP LENS GFEPGA FDGLKLNLYR ISEAKLTGIP KDLPETLNEL HLDHNKIQA I ELEDLLRYSK LYRLGLGHNQ
IRMIENGSL S FLPTLRELHL DNNKLARVPS GLPDLKLLQV VYLHSNNITK VGVNDFCPMG FGVKRAYYNG ISLFNNPVY
WEVQPATFRC VTDLRLAIQFG NYKK<HHHHHH>

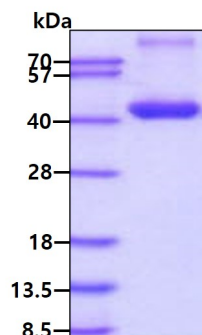
General References

Sun H., et al, (2016) Arch Gynecol Obstet. 293:429-438.

Gaspar R., et al, (2016) J Mol Cell Cardiol. 99:138-150.

DATA

SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

Biological Activity

Human Biglycan in inhibit the cell growth using 3T3-L1 mouse embryonic fibroblast adipose-like cells. The ED50 range ≤ 20 ug/ml.

