

Product information

BGN, 38-368aa

Human, His-tagged, Recombinant, Insect cell

Cat. No. IBATGP3776

Full name: Biglycan preproprotein

NCBI Accession No.: NP_001702

Synonyms: BGN, DSPG1, MRLS, PG-S1, PGI, SEMDX, SLRR1A

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.

Form: Liquid. In Phosphate Buffered Saline (pH 7.4) containing 10% glycerol.

Molecular Weight: 38.3kDa (340aa)

40-57KDa (SDS-PAGE under reducing conditions.)

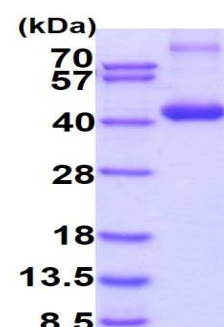
Predicted N terminal: Ala

Purity: > 90% by SDS - PAGE.

Concentration: 0.5mg/ml (determined by Absorbance at 280nm)

Endotoxin Level: < 1.0 EU per 1µg 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 for this effect is less or equal to 20 ug/ml.



15% SDS-PAGE (3ug)

Sequences of amino acids:

ADPDEEASGA DTSGVLPDS VTPTYSAMCP FGCHCHLRVV QCSDLGLKSV PKEISPD TTL LDQNNDISE LRKDDFKGLQ HLYALVLVNN
KISKIHEKAF SPLRKLOKLY ISKNHLVEIP PNLPSLVEL RIHDNRIRKV PKGVFSGLRN MNCIEMGGNP LENS GFEPGA FDGLKLN YLR
ISEAKLTGIP KDLPETLNEL HLDHNKIQAI ELEDLLRYSK LYRLGLGHNQ IRMIENGSL S FLPTLRELHL DNNKLARVPS GLPDLKLLQV
VYLHSNNITK VGVNDFCPMG FGVKRAYYNG ISLFNNPVY WEVQPATFRC VTDRLAIQFG NYKKHHHHHH

For research use only. This product is not intended or approved for human, diagnostics or veterinary use.



Manufactured for:

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Product information

General references:

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

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

Storage: Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C.

Avoid repeated freezing and thawing cycles.

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