

## Recombinant Full Length Human BGN Protein, GST-tagged

Cat. No. BGN-1618HF Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Human BGN full-length ORF ( AAH02416.1, 1 a.a. - 368 a.a.) recombinant protein with GST-tag at N-terminal.
<b>Species</b>	Human
<b>Source</b>	In Vitro Cell Free System
<b>ProteinLength</b>	368 amino acids
<b>Description</b>	The protein encoded by this gene is a small cellular or pericellular matrix proteoglycan that is closely related in structure to two other small proteoglycans, decorin and fibromodulin. The encoded protein and decorin are thought to be the result of a gene duplication. Decorin contains one attached glycosaminoglycan chain, while this protein probably contains two chains. For this reason, this protein is called biglycan. This protein is thought to function in connective tissue metabolism by binding to collagen fibrils and transferring growth factor-beta. It may promote neuronal survival. This gene is a candidate gene for the Happle syndrome.
<b>Form</b>	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
<b>Molecular Mass</b>	66.22 kDa
<b>AA Sequence</b>	MWPLWRLVSL LALSQALPFE QRGFWDFTL DGPFMMNDEE ASGADTSGVL DPDSVTPTYS AMCPFGCHCH LRVVQCSDLG LKSVPKEISP DTTLLDLQNN DISELRKDDF KGLQLHYALV LVNNKISKIH EKAFSPLRKL QKLYISKNHL

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VEIPPNLPS LVELRIHDNR IRKVPKGVFS GLRNMNCIEM GGNPLENSGF  
 EPGAFDGLKL NYLRISEAKL TGIPKDLPET LNELHLDHMK IQAIELEDLL  
 RYSKLYRLGL GHNQIRMIEN GSLSFLPTLR ELHLDNNKLA RVPSGLPDLK  
 LLQVVYLHSN NITKVGVNDF CPMGFGVKRA YYNGISLFFN PVPYWEVQPA  
 TFRCVTDRLA IQFGNYKK

**Storage** Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.

**Storage Buffer** 50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

## GENE INFORMATION

**Gene Name** [BGN biglycan \[ Homo sapiens \]](#)

**Official Symbol** [BGN](#)

**Synonyms** BGN; biglycan; biglycan proteoglycan; DSPG1; SLRR1A; bone/cartilage proteoglycan I; bone/cartilage proteoglycan-I; small leucine-rich protein 1A; dermatan sulphate proteoglycan I; PGI; PG-S1

**Gene ID** [633](#)

**mRNA Refseq** [NM\\_001711](#)

**Protein Refseq** [NP\\_001702](#)

**MIM** [301870](#)

**UniProt ID** [P21810](#)

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