



# SZABO SCANDIC

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## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



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Laborgeräte & Service

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### Lieferung & Zahlungsart

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### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

### SZABO-SCANDIC HandelsgmbH

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## Datasheet

### BGN (Human) Recombinant Protein (P01)

**Catalog Number:** H00000633-P01

**Regulation Status:** For research use only (RUO)

**Product Description:** Human BGN full-length ORF (AAH02416.1, 1 a.a. - 368 a.a.) recombinant protein with GST-tag at N-terminal.

**Sequence:**

MWPLWRLVSLLSQALPFEQRGFWDFTLDDGPFMM  
NDEEASGADTSGVLDPDSVTPTYSAMCPFGCHCHLR  
VVQCSDLGLKSVKPEISPDITLLDLQNDISELRKDDF  
KGLQHLIALVLVNNKISKIHEKAFSPLRKLQKLYISKNH  
LVEIPPNLPSLVELRIHDNRIRKVPKGVFSGLRNMNCI  
EMGGNPLENSGFEPGAFDGLKLNLYLRISAKLTGIPKD  
LPETLNELHLDHNKIQAIIEEDLLRYSKLYRLGLGHNQI  
RMIENGSLSFLPTLRELHLDNKLARVPSGLPDLKLLQ  
VVYLHSSNITKGVNDFCPMGFGVKRAYNGISLFNN  
PVPYWEVQPATFRVCVTDRLAIQFGNYKK

**Host:** Wheat Germ (in vitro)

**Theoretical MW (kDa):** 66.22

**Applications:** AP, Array, ELISA, WB-Re  
(See our web site product page for detailed applications information)

**Protocols:** See our web site at  
<http://www.abnova.com/support/protocols.asp> or product page for detailed protocols

**Preparation Method:** [in vitro wheat germ expression system](#)

**Purification:** Glutathione Sepharose 4 Fast Flow

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

**Storage Instruction:** Store at -80°C. Aliquot to avoid repeated freezing and thawing.

**Entrez GeneID:** 633

**Gene Symbol:** BGN

**Gene Alias:** DSPG1, PG-S1, PGI, SLRR1A

**Gene Summary:** 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. [provided by RefSeq]

**References:**

1. Regulation of PLAP-1 Expression in Periodontal Ligament Cells. Yamada S, Ozawa Y, Tomoeda M, Matoba R, Matsubara K, Murakami S. J Dent Res. 2006 May;85(5):447-51.