



BGN blocking peptide (DAG-P1412)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Antigen Description	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 plays a role in assembly of collagen fibrils and muscle regeneration. It interacts with several proteins involved in muscular dystrophy, including alpha-dystroglycan, alpha- and gamma-sarcoglycan and collagen VI, and it is critical for the assembly of the dystrophin-associated protein complex. [provided by RefSeq, Nov 2009]
Specificity	Found in several connective tissues, especially in articular cartilages.
Conjugate	Unconjugated
Applications	BL
Sequence Similarities	Belongs to the small leucine-rich proteoglycan (SLRP) family. SLRP class I subfamily. Contains 12 LRR (leucine-rich) repeats.
Format	Lyophilised
Preservative	None
Storage	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.

GENE INFORMATION

Gene Name	BGN biglycan [Homo sapiens (human)]
Official Symbol	BGN

Synonyms	BGN; biglycan; PGI; DSPG1; PG-S1; SLRR1A; biglycan proteoglycan; bone/cartilage proteoglycan I; bone/cartilage proteoglycan-I; small leucine-rich protein 1A; dermatan sulphate proteoglycan I;
Entrez Gene ID	633
mRNA Refseq	NM_001711.4
Protein Refseq	NP_001702.1
UniProt ID	P21810
Chromosome Location	Xq28
Pathway	A tetrasaccharide linker sequence is required for GAG synthesis, organism-specific biosystem; CS/DS degradation, organism-specific biosystem; Chondroitin sulfate biosynthesis, organism-specific biosystem; Chondroitin sulfate/dermatan sulfate metabolism, organism-specific biosystem; Dermatan sulfate biosynthesis, organism-specific biosystem; Disease, organism-specific biosystem; ECM proteoglycans, organism-specific biosystem; Extracellular matrix organization, organism-specific biosystem; Glycosa
Function	extracellular matrix binding; extracellular matrix structural constituent; glycosaminoglycan binding;