

Human Biglycan ELISA Kit | BGN elisa kit

Human Biglycan ELISA Kit

CATALOG # AAA261728	REACTIVITY Human	APPLICATIONS ELISA
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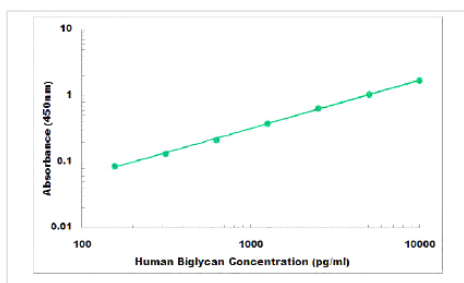
PRODUCT SYNONYMS

Biglycan; Human Biglycan ELISA Kit; SLRR1A; Bone/cartilage proteoglycan I; PG-S1; BGN elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	The Human Biglycan ELISA Kit allows for the detection and quantification of endogenous levels of natural and/or recombinant Human Biglycan proteins within the range of 156 pg/ml - 10000 pg/ml.
Sequence Length	368
Samples	Cell Culture Supernatants, Serum, Plasma.
Sensitivity	10 pg/ml.
Applicable Applications for BGN elisa kit	ELISA (Sandwich ELISA)
Preparation and Storage	Shipped and store at 4 degree C for 6 months, store at -20 degree C for one year. Avoid freeze/thaw cycles.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for BGN elisa kit	Principle of the Assay The Human Biglycan ELISA (Enzyme-Linked Immunosorbent Assay) kit is an in vitro enzyme-linked immunosorbent assay for the quantitative measurement of Human Biglycan in Cell Culture Supernatants, Serum, Plasma. This assay employs an antibody specific for Human Biglycan coated on a 96-well plate. Standards and samples are pipetted into the wells and Biglycan present in a sample is bound to the wells by the immobilized antibody. The wells are washed and biotinylated anti-Human Biglycan antibody is added. After washing away unbound biotinylated antibody, HRP-conjugated streptavidin is pipetted to the wells. The wells are again washed, a TMB substrate solution is added to the wells and color develops in proportion to the amount of Biglycan bound. The Stop Solution changes the color from blue to yellow, and the intensity of the color is measured at 450 nm. Background/Introduction: Biglycan (BGN) is a small leucine-rich repeat proteoglycan (SLRP) which is found in a variety of extracellular matrix tissues, including bone, cartilage and tendon. It is an important structural component of articular cartilage and participates in the assembly of the chondrocyte extracellular matrix through formation of protein interactions with type VI collagen and large proteoglycan aggregates. In humans, Biglycan is encoded by the BGN gene. It is mapped to Xq28. Biglycan is believed to play a role in the mineralisation of bone, and its core protein binds to the growth factors BMP-4 and influences its bioactivity. It has been reported that the presence of biglycan is necessary for BMP-4 to exert its effects on osteoblasts. There is also evidence that biglycan can bind to TGF-beta 1. In addition, Biglycan plays an important role in cell signaling.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	266762
NCBI GeneID	633
UniProt Accession #	P21810; P13247; D3DWU3
Molecular Weight	41,654 Da
NCBI Official Full Name	Biglycan
NCBI Official Synonym Full Names	biglycan
NCBI Official Symbol	BGN
NCBI Official Synonym Symbols	PGI; DSPG1; PG-S1; SLRR1A
NCBI Protein Information	biglycan
UniProt Protein Name	Biglycan
UniProt Gene Name	BGN
UniProt Synonym Gene Names	SLRR1A
UniProt Entry Name	PGS1_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://stage.aaabiotech.com/bgn-human-elisa-kits/biglycan/261728>