

[Go to Product page](#)

Datasheet for ABIN6719885 Biglycan ELISA Kit

Overview

Quantity:	1 kit
Target:	Biglycan (BGN)
Reactivity:	Human
Method Type:	Sandwich ELISA
Detection Range:	156 pg/mL - 10000 pg/mL
Minimum Detection Limit:	156 pg/mL
Application:	ELISA

Product Details

Purpose:	Sandwich ELISA for Quantitative Detection of Antigen
Sample Type:	Cell Culture Lysate, Cell Culture Supernatant, Plasma (EDTA - heparin), Serum, Tissue Homogenate
Analytical Method:	Quantitative
Detection Method:	Colorimetric
Characteristics:	<p>Synonyms: BGN, Biglycan, Biglycan proteoglycan, Bone/cartilage proteoglycan I, Dermatan sulphate proteoglycan I, DSPG1, PG S1, PG-S1, PGI, PGS1_HUMAN, SLRR1A, Small leucine rich protein 1A</p> <p>Background: 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</p>

Product Details

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.

Gene Name: BGN

Production: Natural and recombinant human Biglycan. There is no detectable cross-reactivity with other relevant proteins.

Standard: Expression system for standard: NSO, Immunogen sequence: D38-K368

Target Details

Target:	Biglycan (BGN)
Alternative Name:	Biglycan (BGN Products)
Gene ID:	633
NCBI Accession:	NP_001702
UniProt:	P21810
Pathways:	Glycosaminoglycan Metabolic Process

Application Details

Application Notes:	<p>Application Note: Useful in Sandwich ELISA for Quantitative Detection of Antigen. Aliquot 0.1 mL per well of the 10,000pg/mL, 5000pg/mL, 2500pg/mL, 1250pg/mL, 625pg/mL, 312pg/mL, 156pg/mL human Biglycan standard solutions into the precoated 96-well plate. Add 0.1 mL of the sample diluent buffer into the control well (Zero well). Add 0.1 mL of each properly diluted sample of human cell culture supernates, serum, plasma(heparin, EDTA) or tissue homogenates to each empty well. It is recommended that each human Biglycan standard solution and each sample be measured in duplicate.</p> <p>Blood Product Anticoagulant: Heparin Sodium</p> <p>ELISA Dilution: 156pg/mL-10,000pg/mL</p> <p>Other Performance Data: DOE at 4 °C 18JAN19. DOE at -20 °C 19JUL19.</p>
Sample Volume:	100 µL
Plate:	Pre-coated

Application Details

Restrictions: For Research Use only

Handling

Storage: RT, 4 °C, -20 °C

Storage Comment: Store vials at 4°C prior to opening. Centrifuge product if not completely clear after standing at room temperature. This product is stable for 6 months at 4°C as an undiluted liquid. Dilute only prior to immediate use. For extended storage freeze at -20°C or below for 12 months. Avoid cycles of freezing and thawing.