

Datasheet for ABIN7529401

Biglycan Protein (BGN) (AA 38-368) (His tag)[Go to Product page](#)

Overview

Quantity:	100 µg
Target:	Biglycan (BGN)
Protein Characteristics:	AA 38-368
Origin:	Human
Source:	Baculovirus infected Insect Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This Biglycan protein is labelled with His tag.
Application:	SDS-PAGE (SDS)

Product Details

Sequence:	ADPDEEASGA DTSGVLDPDS VTPTYSAMCP FGCHCHLRVW QCSDLGLKSV PKEISPD TTL LDLQNN DISE LRKDDFKGLQ HLYALVLVNN KISKIHEKAF SPLRKLQKLY ISKNHLVEIP PNLPSSLVEL RIHDNRIRKV PKGVFSGLRN MNCIEMGGNP LENS GFEPGA FDGLKLNLYR ISEAKLTGIP KDLPETLNEL HLDHNKIQAI ELEDLLRYSK LYRLGLGHNQ IRMIENGSL S FLPTLRELHL DNNKLARVPS GLPDLKLLQV VYLHSSNITK VGVNDFCPMG FGVKRAYYNG ISLFNNPVPY WEVQPATFRC VTDRLAIQFG NYKKHHHHHHH
Purity:	> 90 % by SDS - PAGE
Endotoxin Level:	< 1.0 EU per 1ug of protein (determined by LAL method)
Biological Activity Comment:	Measured in inhibit the cell growth using 3T3-L1 mouse embryonic fibroblast adipose-like cells. The ED50 for this effect is less or equal to 20 ug/ml.

Target Details

Target:	Biglycan (BGN)
Alternative Name:	BGN (BGN Products)
Background:	BGN, also known as biglycan preproprotein, is a small leucine-rich repeat proteoglycan (SLRP). It plays an important role in the development and maintenance of many tissues. Core protein of this protein binds to the growth factors BMP-4 and influences its bioactivity. This protein is also involved in collagen fiber assembly. Recombinant human BGN protein, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.
Molecular Weight:	38.3kDa (340aa) 40-57KDa (SDS-PAGE under reducing conditions.)
NCBI Accession:	NP_001702
UniProt:	P21810
Pathways:	Glycosaminoglycan Metabolic Process

Application Details

Application Notes:	Optimal working dilution should be determined by the investigator.
Comment:	Bioactivity Validated
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	0.5 mg/mL
Buffer:	Liquid. In Phosphate Buffered Saline (pH 7.4) containing 10 % glycerol.
Storage:	4 °C,-20 °C,-80 °C
Storage Comment:	Can be stored at +4C short term (1-2 weeks). For long term storage, aliquot and store at -20C or -70C. Avoid repeated freezing and thawing cycles.