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Datasheet for ABIN5855132  
**Biglycan Protein (BGN) (AA 38-369) (hlgG-His-tag)**

Overview

Quantity:	50 µg
Target:	Biglycan (BGN)
Protein Characteristics:	AA 38-369
Origin:	Mouse
Source:	Baculovirus infected Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This Biglycan protein is labelled with hlgG-His-tag.
Application:	SDS-PAGE (SDS)

Product Details

Sequence:	ADPDEEASGS DTTSGVPDL D SVTPTFSAMC PFGCHCHLRV VQCS DLGLKT VPKEISPDTT LLDLQNNDIS ELRKDDFKGL QHLYALVLVN NKISKIHEKA FSPLRKLQKL YISKNHLEI PPNLPSSLVE LRIHDNRIRK VPKGVFSGLR NMNCIEMGGN PLENSGFEPG AFDGLKLNLY RISEAKLTGI PKDLPETLNE LHLDHNKIQA IELEDLLRYS KLYRLGLGHN QIRMIENGL SFLPTLRELH LDNNKLSRVP AGLPDLKLLQ VVYLHSNNIT KVGINDFCPM GFGVKRAYYN GISLFNPNVP YWEVQPATFR CVTDRLAIQF GNYKKLEPKS CDKTHTCPPC PAPELLGGPS VFLFPPKPKD TLMISRTPEV TCVVVDVSHE DPEVKFNWYV DGVEVHNAKT KPREEQYNST YRVVSVLTVL HQDWLNGKEY KCKVSNKALP APIEKTISKA KGQPREPQVY TLPPSRDEL T KNQVSLTCLV KGFYPSDIAV EWESNGQPEN NYKTTTPVLD SDGSFFLYSK LTVDKSRWQQ GNVFSCSVMH EALHNHYTQK SLSLSPGKHH HHHH
Purity:	> 90 % by SDS - PAGE
Endotoxin Level:	< 1.0 EU per 1ug of protein (determined by LAL method)

## Target Details

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Target:	Biglycan (BGN)
Alternative Name:	Bgn ( <a href="#">BGN Products</a> )
Background:	Bgn, also known as biglycan preproprotein, is a small leucine-rich repeat proteoglycan (SLRP). It binds to the growth factors BMP-4 and influences BMP-4 bioactivity. It plays an important role in stabilizing fibrotic scars after experimental myocardial infarction. It may function in connective tissue metabolism by binding to collagen fibrils and TGF-beta and may promote neuronal survival. Its ablation improves cardiac function and attenuates left ventricular hypertrophy and fibrosis after long-term pressure overload. It is found in a variety of extracellular matrix tissues, including bone, cartilage and tendon. Recombinant mouse Bgn, fused to hIgG-His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.
Molecular Weight:	64.6kDa (574aa) 50-70kDa (SDS-PAGE under reducing conditions)
NCBI Accession:	<a href="#">NP_031568</a>
UniProt:	<a href="#">P28653</a>
Pathways:	<a href="#">Glycosaminoglycan Metabolic Process</a>

## Application Details

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

## Handling

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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.