

Recombinant mouse Biglycan protein

Catalog Number: ATGP3775

PRODUCT INFORMATION

Expression system

Baculovirus

Domain

38-369aa

UniProt No.

P28653

NCBI Accession No.

NP_031568

Alternative Names

Biglycan, Bgn, BG, DSPG1, PG-S1, PGI, SLRR1A

PRODUCT SPECIFICATION

Molecular Weight

64.6 kDa (574aa)

Concentration

0.5mg/ml (determined by absorbance at 280nm)

Formulation

Liquid in. Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol

Purity

> 90% by SDS-PAGE

Endotoxin level

< 1 EU per 1ug of protein (determined by LAL method)

Tag

hIgG-His-Tag

Application

SDS-PAGE

Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Description

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

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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 hlgG-His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.

Amino acid Sequence

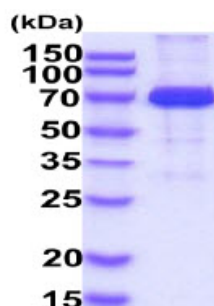
ADPDEEASGS DTTSGVPDLD SVTPTFSAMC PFGCHCHLRV VQCSDLGLKT VPKEISPD TT LLDLQNNDIS ELRKDDFKGL
QHLYALVLVN NKISKIHEKA FSPLRKLQKL YISKNHLEI PPNLPSSLVE LRIHDNRIRK VPKGVSGLR NMNCIEMGGN
PLENSGFEPG AFDGLKLNLYL RISEAKLTGI PKDLPETLNE LLDHNLKIQA IELEDLLRYS KLYRLGLGHN QIRMIENGSL
SFLPTLRELH LDNNKLSRVP AGLPDLKLLQ VVYLHSSNIT KVGINDFCPM GFGVKRAYYN GISLFNNPVP YWEVQPATFR
CVTDRLAIQF GNYKKLEPKS CDKTHTCPPC PAPELLGGPS VFLFPPKPKD TLMISRTPEV TCVVVDVSHE DPEVKFNWYV
DGVEVHNAKT KPREEQYNST YRVVSVLTVL HQDWLNGKEY KCKVSNKALP APIEKTISKA KGQPREPQVY TLPPSRDELT
KNQVSLTCLV KGFYPSDIAV EWESNGQPN NYKTTTPVLD SDGSFFLYSK LTVDKSRWQQ GNVFSCSVMH EALHNHYTQK
SLSLSPGKHH HHHH

General References

Beetz N., et al. (2016) J Mol Cell Cardiol. 101:145-155.
Bianco P., et al. (1990) J Histochem Cytochem. 38:1549-1563.

DATA

SDS-PAGE



15% SDS-PAGE (3ug)

3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.