

# Recombinant mouse Decorin protein

Catalog Number: ATGP3181

## PRODUCT INFORMATION

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### Expression system

Baculovirus

### Domain

17-354aa

### UniProt No.

P28654

### NCBI Accession No.

NP\_001177380

### Alternative Names

Dcn, DC, DSPG2, mDcn, PG40, PGII, PGS2, SLRR1B

## PRODUCT SPECIFICATION

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### Molecular Weight

38.8 kDa (344aa)

### Concentration

0.25mg/ml (determined by absorbance at 280nm)

### Formulation

Liquid in. Phosphate-Buffered Saline (pH 7.4) containing 30% glycerol, 0.1mM PMSF

### Purity

> 90% by SDS-PAGE

### Endotoxin level

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

### Tag

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

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### Description

DCN, also known as decorin, is a proteoglycan known to interact with collagen and growth factors, may play key roles during ontogenesis, tissue remodeling, and cancer. It regulates assembly of the extracellular collagen matrix and the bioactivity of the matrix associated growth factors FGF-2, GDF-8/Myostatin, TGF-Beta, and WISP-1. Recombinant mouse DCN, fused to His-tag at C-terminus, was expressed in insect cell and purified by using

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conventional chromatography techniques.

## Amino acid Sequence

GPFEQRGLFD FMLEDEASGI IPYDPDNPLI SMCPCYRCQCH LRVVQCSDLG LDKVPWDFPP DTTLLDLQNN KITEIKEGAF  
KNLKDLHTLI LVNNKISKIS PEAFLPLVKL ERLYLSKNQL KELPEKMPRT LQELRVHENE ITKLRKSDFN GLNNVLVIEL  
GGNPLKNSGI ENGAFAQGLKS LSYIRISDTN ITAIPQGLPT SLTEVHLDGN KITKVDAPSL KGLINLSKLG LSFNSITVME  
NGSLANVPHL RELHLDNNKL LRVAPAGLAQH KYIQVVYLHN NNISAVGQND FCRAHGHSRK ASYSAVSLYG NPVRYWEIFP  
NTFRCVYVRS AIQLGNYKHH HHHH

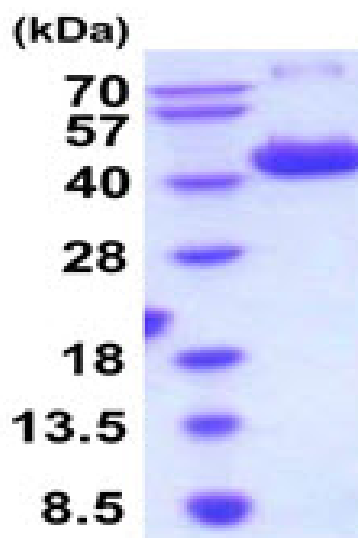
## General References

Scholzen T. et al., (1994) J. Biol. Chem. 269:28270-28281.

Zamfir A. et al., (2003) Glycobiology 13: 733.

## DATA

### SDS-PAGE



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

15% SDS-PAGE (3ug)