

# Recombinant mouse Lumican protein

Catalog Number: ATGP3871

## PRODUCT INFORMATION

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### Expression system

Baculovirus

### Domain

19-338aa

### UniProt No.

P51885

### NCBI Accession No.

NP\_032550

### Alternative Names

Lum, Ldc, SLRR2D, Lumican, Keratan sulfate proteoglycan lumican, KSPG lumican

## PRODUCT SPECIFICATION

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### Molecular Weight

37.5 kDa (328aa)

### Concentration

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

### Formulation

Liquid in. Phosphate-Buffered Saline (pH 7.4) containing 20% glycerol

### Purity

> 95% 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

Lumican, also known as Lum, is a proteoglycan Class II member of the small leucine-rich proteoglycan (SLRP) family that includes decorin, biglycan, fibromodulin, keratocan, epiphygan, and osteoglycin. It is a major component of the cornea, dermal, and muscle connective tissues. This protein has a negatively-charged N-terminal domain containing sulfated tyrosine and disulfide bonds and ten tandem leucine-rich that repeats

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allowing it to bind to other extracellular components such as collagen. Lum is the major keratin sulfate proteoglycan of the cornea and is distributed in interstitial collagenous matrices throughout the body. Also, it plays a role as definitive link between a necessity for this protein in the development of a highly organized collagenous matrix and corneal transparency. Recombinant Mouse Lumican, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.

## Amino acid Sequence

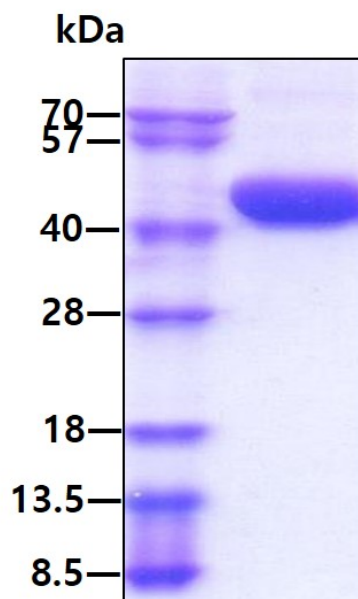
QYYDYDIPLF MYGQISPNCA PECNCPHSYP TAMYCDDLKL KSVPMVPPGI KYLYLRNNQI DHIDEKAFEN VTDLQWLILD  
LLENSKIK GKVFSKQKQL KKLHINYNNL TESVGPLPKS LQDLQLTNNK ISKLG SFDGL VNLTFIYLQH NQLKEDAVSA  
SLKGLKSLEY LDLSFNQMSK LPAGLPTSLL TLYLDNNKIS NIPDEYFKRF TGLQYLRLSH NELADSGVPG NSFNISLLE  
LDLSYNKLS IPTVNENLEN YYLEVNELEK FDVKSFKIL GPLSYSKIKH LRLDGNPLTQ SSLPPDMYEC LRVANEITVN  
<VEHHHHHH>

## General References

Castillo EF., et al, (2016) Eur. J. Immunol. 46:2852-2861.  
Ying S., et al, (1997) J. Biol. Chem. 272:30306-30313.

## DATA

### SDS-PAGE



3 $\mu$ g by SDS-PAGE under reducing condition and visualized by coomassie blue stain.