

Recombinant human Lumican protein

Catalog Number: ATGP3445

PRODUCT INFORMATION

Expression system

Baculovirus

Domain

19-338aa

UniProt No.

P51884

NCBI Accession No.

NP_002336

Alternative Names

Lumican, LUM, LDC, SLRR2D

PRODUCT SPECIFICATION

Molecular Weight

37.7 kDa (329aa)

Concentration

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

Formulation

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

Description

LUM, also known as lumican, is a member of the class II small leucine-rich proteoglycan family. It is a major component of the cornea, dermal, and muscle connective tissues. It regulates collagenous matrix assembly as a keratan sulfate proteoglycan in the cornea and is also present in the connective tissues of other organs and embryonic corneal stroma as a glycoprotein. It may regulate collagen fibril organization and circumferential

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growth, corneal transparency, and epithelial cell migration and tissue repair. Recombinant human LUM, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.

Amino acid Sequence

ADLQYYDYDF PLSIYGQSSP NCAPECNCPE SYPSAMYCDE LKLKSVPMVP PGIKYLYLRN NQIDHIDEKA FENVTDLQWL
ILDHNLLENS KIKGRVFSKL KQLKKLHINH NNLTESVGPL PKSLEDLQLT HNKITKLGSF EGLVNLTFIH LQHNRLKEDA
VSAAFKGLKS LEYLDLSFNQ IARLPSGLPV SLLTLYLDNN KISNIPDEYF KRFNALQYLR LSHNELADSG IPGNSFNVSS
LVELDLSYNK LKNIPTVNEN LENYYLEVNQ LEKFDIKSFC KILGPLSYSK IKHLRLDGNR ISETSLPPDM YECLRVANEV
TLNHHHHHHH

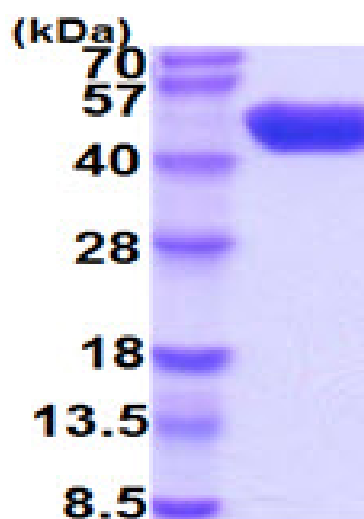
General References

Yamamoto T., et al. (2013) *Oncol Rep.* 30:1609-1621.

Saika S., et al. (2000) *J Biol Chem.* 275:2607-2612.

DATA

SDS-PAGE



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

15% SDS-PAGE (3ug)