

Recombinant human LUM, His-tagged

Cat. No. LUM-2491H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human LUM protein, fused to His-tag at N-terminus, was expressed in E.coli.
Species	Human
Source	E.coli
Description	LUM is a member of the small leucine-rich proteoglycan (SLRP) family that includes decorin, biglycan, fibromodulin, keratocan, epiphykan, and osteoglycin. In these bifunctional molecules, the protein moiety binds collagen fibrils and the highly charged hydrophilic glycosaminoglycans regulate interfibrillar spacings. Lumican is the major keratan sulfate proteoglycan of the cornea but is also distributed in interstitial collagenous matrices throughout the body. Lumican may regulate collagen fibril organization and circumferential growth, corneal transparency, and epithelial cell migration and tissue repair.
Form	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 0.4M Urea, 10% glycerol
Molecular Mass	39kDa (343aa)
AA Sequence	MGSSHHHHHH SSGLVPRGSH MGSQYYDYDF PLSIYGQSSP NCAPECNCPE SYPSAMYCDE LKLKSVPMVP PGIKYLYLRN NQIDHIDEKAFENVTDLQWL ILDHNLLENS KIKGRVFSKL KQLKKLHINH NNLTESVGPL PKSLEDLQLT HNKITKLGSF EGLVNLTFIH LQHNRLKEDA VSAAFKGLKS LEYLDLSFNQ IARLPSGLPV SLLTLYLDNN KISNIPDEYF KRFNALQYLR LSHNELADSG

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IPGNSFNVSS LVELDLSYNKLKNIPTVNEN LENYYLEVNQ LEKFDIKSFC
KILGPLSYSK IKHLRLDGNR ISETSLPPDM YECLRVANEV TLN

Purity >90% by SDS - PAGE

Applications SDS-PAGE

Storage 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.

Concentration 1 mg/ml (determined by Bradford assay)

GENE INFORMATION

Gene Name LUM lumican [Homo sapiens]

Official Symbol LUM

Synonyms LUM; lumican; LDC; lumican proteoglycan; SLRR2D; KSPG lumican; keratan sulfate proteoglycan lumican;

Gene ID 4060

mRNA Refseq NM_002345

Protein Refseq NP_002336

MIM 600616

UniProt ID P51884

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Chromosome Location	12q21.3-q22
Function	collagen binding; extracellular matrix structural constituent;