

## Lumican/LUM Recombinant Protein | LUM recombinant protein

Recombinant Human Lumican/LUM Protein

CATALOG #  
**AAA281512**

HOST  
**HEK293 Cells**

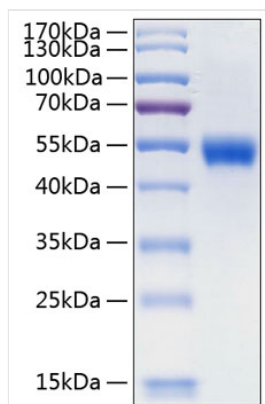
### PRODUCT SYNONYMS

Lumican/LUM; Recombinant Human Lumican/LUM Protein; LDC; SLRR2D; LUM; lumican; LUM recombinant protein

### PRODUCT SPECIFICATIONS

|                         |                                                                                                                                                                                                                                                                                                                                                                                   |
|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                    | HEK293 Cells                                                                                                                                                                                                                                                                                                                                                                      |
| Purity/Purification     | >95% by SDS-PAGE.                                                                                                                                                                                                                                                                                                                                                                 |
| Form/Format             | Lyophilized from a 0.22 um filtered solution of PBS, pH 7.4.                                                                                                                                                                                                                                                                                                                      |
| Sequence Length         | 338                                                                                                                                                                                                                                                                                                                                                                               |
| Species                 | Human                                                                                                                                                                                                                                                                                                                                                                             |
| Endotoxin               | < 0.1 EU/ug of the protein by LAL method.                                                                                                                                                                                                                                                                                                                                         |
| Reconstitution          | Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stabilizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles. |
| Tag                     | C-His                                                                                                                                                                                                                                                                                                                                                                             |
| Preparation and Storage | Store at -20°C.<br>Store the lyophilized protein at -20°C to -80°C up to 1 year from the date of receipt.<br>After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week. Avoid repeated freeze/thaw cycles.                                                                                                                            |

### IMAGES



#### SDS-PAGE

Recombinant Human Lumican/LUM Protein was determined by SDS-PAGE with Coomassie Blue, showing a band at 45-60 kDa.

ADDITIONAL INFORMATION

|                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|---------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for LUM recombinant protein | <p>Description: Recombinant Human Lumican/LUM Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Gln19-Asn338) of human Lumican/LUM (Accession #NP_002336.1) fused with a 6xHis tag at the C-terminus.</p> <p>Background: Lumican is a member of the family of small leucine-rich repeat proteoglycans (SLRPs) and the class II subfamily.which is a major component of the cornea, dermal, and muscle connective tissues. Lumican is the major keratan sulfate proteoglycan of the cornea but is also distributed in interstitial collagenous matrices throughout the body. Lumican 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. Lumican may regulate collagen fibril organization and circumferential growth, corneal transparency, and epithelial cell migration and tissue repair. Lumican's over-expression has been reported in carcinoid tumor, breast, colorectal, neuroendocrine, uterine cervical and pancreatic cancers</p> |
| Product Categories/Family for LUM recombinant protein   | Other Recombinant Protein                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |

NCBI AND UNIPROT INFORMATION

|                                  |                           |
|----------------------------------|---------------------------|
| NCBI GI #                        | 4505047                   |
| NCBI GeneID                      | 4060                      |
| NCBI Accession #                 | NP_002336.1               |
| NCBI GenBank Nucleotide #        | NP_002336.1               |
| UniProt Accession #              | P51884                    |
| NCBI Official Full Name          | lumican                   |
| NCBI Official Synonym Full Names | lumican                   |
| NCBI Official Symbol             | LUM                       |
| NCBI Official Synonym Symbols    | LDC; SLRR2D               |
| NCBI Protein Information         | lumican                   |
| UniProt Protein Name             | Lumican                   |
| UniProt Gene Name                | LUM                       |
| UniProt Synonym Gene Names       | LDC; SLRR2D; KSPG lumican |
| UniProt Entry Name               | LUM_HUMAN                 |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.