

Recombinant Human LUM

Cat. No. LUM-29148TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length Human Lumican with a N terminal proprietary tag: Predicted molecular weight 63.25 kDa.
Species	Human
Source	Wheat Germ
ProteinLength	338 amino acids
Description	<p>This gene encodes a member of the small leucine-rich proteoglycan (SLRP) family that includes decorin, biglycan, fibromodulin, keratocan, epiphycan, 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.</p>
Molecular Weight	63.250kDa inclusive of tags
Tissue specificity	Cornea and other tissues.
Form	Liquid
Purity	Proprietary Purification

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Storage buffer	pH: 8.00 Constituents: 0.3% Glutathione, 0.79% Tris HCl
Storage	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
Sequences of amino acids	MSLSAFTLFLALIGGTSGQYYDYDFPLSIYGQSSPNCAPE CNCPEYPSAMYCDEL KLKSVMVPPGIKYLRLRNNQIDH IDEKAFENVTDLQWLILDHNLLENSKIKGRVFSK LKQLKK LHINHNLTESVGPLPKSLEDLQLTHNKITKLGSFEGLVN LTFIHLQHNRLK EDAVSAAFKGLKSLEYLDLSFNQIARLP SGLPVSLLTLYLDNNKISNIPDEYFKRFNAL QYLRLSHNE LADSGIPGNSFNVSSLVELDLSYNKLNKIPTVNENLENY LEVNQLEK FDIKSFCKILGPLSYSKIKHLRLDGNRISETS LPPDMYECLRVANEVTLN
Sequence Similarities	Belongs to the small leucine-rich proteoglycan (SLRP) family. SLRP class II subfamily. Contains 11 LRR (leucine-rich) repeats. Contains 1 LRRNT domain.

GENE INFORMATION

Gene Name	LUM lumican [<i>Homo sapiens</i>]
Official Symbol	LUM
Synonyms	LUM; lumican; LDC; lumican proteoglycan; SLRR2D;
Gene ID	4060
mRNA Refseq	NM_002345
Protein Refseq	NP_002336
MIM	600616

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Uniprot ID	P51884
Chromosome Location	12q21.3-q22
Function	collagen binding; extracellular matrix structural constituent;

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