Recombinant Human LUM protein, His-tagged

Cat. No. LUM-154H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human LUM (Gln19-Asn338) protein was fused to His-tag at C-terminus and expressed in human 293 cells (HEK293).
Species	Human
Source	HEK293
ProteinLength	Gln19-Asn338
Description	Lumican (LUM) is also known as Keratan sulfate proteoglycan lumican, KSPG lumican,LDC and SLRR2D, which belongs to the small leucine-rich proteoglycan (SLRP) family and SLRP class II subfamily. LUM /Lumican is present in the extracellular matrix of human articular cartilage at all ages, although its abundance is far greater in the adult. In the adult cartilage LUM/Lumican exists predominantly in a glycoprotein form lacking keratan sulfate, whereas the juvenile form of the molecule is a proteoglycan. LUM participates in the maintenance of tissue homeostasis and modulates cellular functions including cell proliferation, migration, and differentiation. The expression of LUM has been correlated to the growth and metastasis of various malignancies.
Predicted N Terminal	Gln19
Form	Lyophilized from 0.22 μm filtered solution in PBS, pH7.4, 10% trehalose.
Molecular Mass	The protein has a calculated MW of 37.5 kDa. The protein migrates as 50-65 kDa

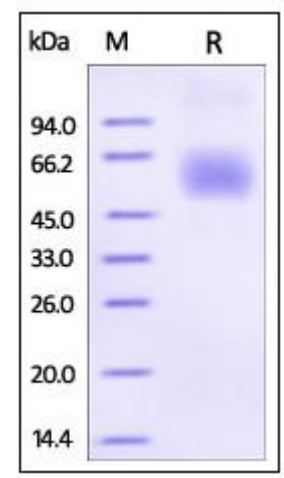
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	under reducing (R) condition (SDS-PAGE) due to glycosylation.
Endotoxin	Less than 1.0 EU per μg by the LAL method.
Purity	>95% as determined by reduced SDS-PAGE.
Storage	For long term storage, the product should be stored at lyophilized state at -20 centigrade or lower. Please avoid repeated freeze-thaw cycles. This product is stable after storage at: -20 to -70 centigrade for 12 months in lyophilized state; -70 centigrade for 3 months under sterile conditions after reconstitution.
Reconstitution	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 ug/ul. Centrifuge the vial at 4℃ before opening to recover the entire contents.

GENE INFORMATION

Gene Name	LUM
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

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MIM	600616
UniProt ID	P51884
SDS-PAGE of LUM-154H	 Human Lumican, His Tag on SDS-PAGE under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 95%.

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