



Recombinant Protein Technical Manual
Recombinant Mouse Lumican/LUM Protein (His Tag)
RPES1266

Product Data:

Product SKU: RPES1266

Size: 10µg

Species: Mouse

Expression host: Human Cells

Uniprot: P51885

Protein Information:

Molecular Mass: 37.4 kDa

AP Molecular Mass: 40-60 kDa

Tag: C-His

Bio-activity:

Purity: > 95% as determined by reducing SDS-PAGE.

Endotoxin: < 1.0 EU per µg as determined by the LAL method.

Storage: Lyophilized protein should be stored at < -20°C, though stable at room temperature for 3 weeks. Reconstituted protein solution can be stored at 4-7°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.

Shipping: This product is provided as lyophilized powder which is shipped with ice packs.

Formulation: Lyophilized from a 0.2 µm filtered solution of PBS,pH 7.4.

Reconstitution: Please refer to the printed manual for detailed information.

Application:

Synonyms: Keratan sulfate proteoglycan lumican;KSPG lumican;Lumican; LDC

Immunogen Information:

Sequence: Gln19-Asn338

Background:

Keratan sulfate proteoglycan lumican, mostly known as lumican, belongs to the SLRP class II subfamily and the small leucine-rich proteoglycan (SLRP) family. Lumican binds to laminin. It has positive regulation of transcription from RNA polymerase II promoter and transforming growth factor beta1 production. Lumican is expressed in a variety of tissues, including skin, artery, lung, cornea, kidney, bone, aorta, and articular cartilage. The abnormal connective tissue phenotype seen in the Lumican null mice shows the importance of the role of Lumican in collagen fibrillogenesis. In addition to the control of collagen fibril assembly, Lumican has been shown to play a role in the regulation of cell proliferation, migration, and adhesion.