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Recombinant Human Lumican/LUM Protein

Catalog No.: RP00216 Recombinant 1 Publications

Sequence Information

Species Gene ID Swiss Prot Human 4060 P51884

Tags C-His

Synonyms LDC; SLRR2D;LUM;SLRR2D;lumican

Product Information

Source Purification HEK293 cells ≥ 95 % as

≥ 95 % as determined by SDS-

PAGE.

Calculated MW Observed MW

37.50 kDa 45-60 kDa

Endotoxin

< 0.1 EU/ μg of the protein by LAL method.

Formulation

Lyophilized from a 0.22 µm filtered solution of PBS, pH 7.4.Contact us for customized product form or formulation.

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 stablizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

Contact

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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

Basic Information

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 6×His tag at the C-terminus.

Bio-Activity

Shipping

The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

Storage

Store at -20°C. Store the lyophilized protein at -20°C to -80 °C up to 1 year from the date of receipt.

After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.

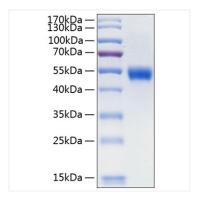
Avoid repeated freeze/thaw cycles.

Operational Notes

For your safety and health, please wear a lab coat and disposable gloves for handling.

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Validation Data



Recombinant Human Lumican/LUM Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.