

Lumican Protein, Mouse, Recombinant (His)

General Information

Synonyms:	KSPG lumican;Lumican;Keratan sulfate proteoglycan lumican
Protein Construction:	Gln19-Asn338
Species:	Mouse
Expression Host:	HEK293 Cells
Accession:	P51885
Molecular Weight:	40-60 KDa (reducing condition)
AA Sequence:	Gln19-Asn338

QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	Greater than 95% as determined by reducing SDS-PAGE. (QC verified)
Endotoxin:	< 0.1 ng/μg (1 EU/μg) as determined by LAL test.
Formulation:	Lyophilized from a solution filtered through a 0.22 μm filter, containing PBS, pH 7.4.

Preparation and Storage

Reconstitution:

Reconstitute the lyophilized protein in distilled water. The product concentration should not be less than 100 μg/ml. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein 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

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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.

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