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Datasheet for ABIN1097110 LUM Protein (AA 19-338) (His tag)

Overview

Quantity:	50 µg
Target:	LUM
Protein Characteristics:	AA 19-338
Origin:	Human
Source:	Human Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This LUM protein is labelled with His tag.

Product Details

Purpose:	Recombinant Human Lumican/LUM (C-6His)
Sequence:	QYYDYDFPLS IYQSSPNCA PECNCPESYP SAMYCDELKL KSVPMVPPGI KYLYLRNNQI DHIDEKAFEN VTDLQWLILD HNLENSKIK GRVFSKLKQL KKLHINHNNL TESVGPLPKS LEDLQLTHNK ITKLGSFEGF VNLTFIHLQH NRLKEDAVSA AFKGLKSLEY LDLSFNQIAR LPSGLPVSLT TLYLDNNKIS NIPDEYFKRF NALQYLRLSH NELADSGIPG NSFNVSSLVE LDLSYNKLKN IPTVNENLEN YYLEVNQLEK FDIKSFKIL GPLSYSKIKH LRLDGNRISE TSLPPDMYEC LRVANEVTLN VDHHHHHH
Characteristics:	Recombinant Human Lumican/LUM produced by transfected human cells is a secreted protein with sequence (Gln19-Asn338) of Human Lumican fused with a polyhistidine tag at the C-terminus.
Purity:	> 95 % as determined by reducing SDS-PAGE.
Sterility:	0.2 µm filtered

Product Details

Endotoxin Level: Less than 0.1 ng/μg (1 IEU/μg) as determined by LAL test

Target Details

Target: LUM

Alternative Name: lumican ([LUM Products](#))

Sub Type: Fusionprotein

Background: Lumican is a 40 kD secreted protein which belongs to the small leucine-rich repeat proteoglycans (SLRPs) and the class II subfamily. Human Lumican is synthesized as a 338 amino acid precursor then cut the 18 aa signal sequence. The mature Human Lumican contains 12 leucine-rich repeats (LRRs), 4 potential sites of N-linked glycosylation, and a C-terminal with two conserved cysteines. Lumican can be existed in extracellular matrix of human articular cartilage. Lumican participates in the maintenance of tissue homeostasis and regulates cellular functions in vivo, such as cell proliferation, adhesion, migration, and differentiation. The overexpression of lumican has been correlated to colorectal tumor, breast, neuroendocrine, and pancreatic cancers.

Alternative Names: Lumican, Keratan Sulfate Proteoglycan Lumican, KSPG Lumican, LUM, LDC, SLRR2D

Molecular Weight: 37.7 kDa

UniProt: [P51884](#)

Pathways: [Glycosaminoglycan Metabolic Process](#)

Application Details

Restrictions: For Research Use only

Handling

Format: Lyophilized

Reconstitution: It is not recommended to reconstitute to a concentration less than 100 μg/mL.
Dissolve the lyophilized protein in ddH₂O.
Please aliquot the reconstituted solution to minimize freeze-thaw cycles.

Buffer: Lyophilized from a 0.2 μm filtered solution of 20 mM PB, 150 mM NaCl, 1 mM EDTA, pH 7.2.

Handling Advice: Always centrifuge tubes before opening. Do not mix by vortex or pipetting.

Handling

Storage:	4 °C/-20 °C/-80 °C
Storage Comment:	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.
Expiry Date:	3 months