Datasheet for ABIN7596409

LUM Protein (AA 19-338) (His tag)

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Overview

Quantity:	100 µg
Target:	LUM
Protein Characteristics:	AA 19-338
Origin:	Mouse
Source:	Baculovirus infected Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This LUM protein is labelled with His tag.
Application:	SDS-PAGE (SDS)

Product Details

Sequence:	QYYDYDIPLF MYGQISPNCA PECNCPHSYP TAMYCDDLKL KSVPMVPPGI KYLYLRNNQI DHIDEKAFEN VTDLQWLILD LLENSKIK GKVFSKLKQL KKLHINYNNL TESVGPLPKS LQDLQLTNNK ISKLGSFDGL VNLTFIYLQH NQLKEDAVSA SLKGLKSLEY LDLSFNQMSK LPAGLPTSLL TLYLDNNKIS NIPDEYFKRF TGLQYLRLSH NELADSGVPG NSFNISSLLE LDLSYNKLKS IPTVNENLEN YYLEVNELEK FDVKSFCKIL GPLSYSKIKH LRLDGNPLTQ SSLPPDMYEC LRVANEITVN
Purity:	> 95% by SDS-PAGE
Endotoxin Level:	< 1 EU per 1ug of protein (determined by LAL method)

Target Details

Target:	LUM

Target Details

Alternative Name:	Lumican (LUM Products)
Background:	Lumican, also known as Lum, is a proteoglycan Class II member of the small leucine-rich proteoglycan (SLRP) family that includes decorin, biglycan, fibromodulin, keratocan, epiphycan, and osteoglycin. It is a major component of the corna, demal, and muscle connective tissues. This protein has a negatively-charged N-terminal domain containing sulfated tyrosine and disulfide bonds and ten tandem leucine-rich that repeats allowing it to bind to other extracellular components such as collagen. Lum is the major keratin sulfate proteoglycan of the cornea and is distributed in interstitial collagenous matrices throughout the body. Also, it plays a role as definitive link between a necessity for this protein in the development of a highly organized collagenous matrix and corneal transparency. Recombinant Mouse Lumican, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.
Molecular Weight:	37.5 kDa (328aa)
NCBI Accession:	NP_032550
Pathways:	Glycosaminoglycan Metabolic Process

Application Details

Application Notes:	Optimal working dilution should be determined by the investigator.
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	0.5 mg/mL
Storage:	4 °C,-20 °C,-80 °C
Storage Comment:	Can be stored at +2°C to +8°C for 1 week. For long term storage, aliquot and store at -20°C to -80°C. Avoid repeated freezing and thawing cycles.