Recombinant mouse Lumican protein

Catalog Number: ATGP3871

PRODUCT INFORMATION

Expression system
Baculovirus

Domain
19-338aa

UniProt No.
P51885

NCBI Accession No.
NP_032550

Alternative Names
Lum, Ldc, SLRR2D, Lumican, Keratan sulfate proteoglycan lumican, KSPG lumican

PRODUCT SPECIFICATION

Molecular Weight
37.5 kDa (328aa)

Concentration
0.5mg/ml (determined by absorbance at 280nm)

Formulation
Liquid in. Phosphate-Buffered Saline (pH 7.4) containing 20% glycerol

Purity
> 95% by SDS-PAGE

Endotoxin level
< 1 EU per 1ug of protein (determined by LAL method)

Tag
His-Tag

Application
SDS-PAGE

Storage Condition
Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Description
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

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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.

Amino acid Sequence

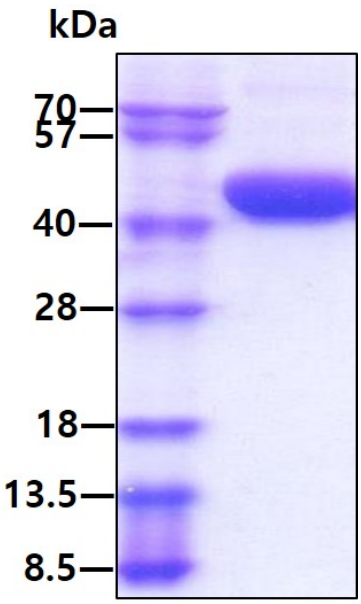
QYYDYDIPLF MYGQISPNCA PECNCPHSYP TAMYCDDLKL KSVPMVPPGI KYLYLRNNQI DHIDEKAFEN VTDLQWLILD LLENSKIK GKVFSKLKQL KKLHINYNNL TESVGPLPKS LQDLQLTNNK ISKLGSFDGL VNLTFIYLQH NQLKEDAVSA SLKGLKSLEY LDLSFNQMSK LPAGLPTSLL TLYLDNNKIS NIPDEYFKRF TGLQYLRLSH NELADSGVPG NSFNISSLLE LDLSYNKLKS IPTVNENLEN YYLEVNELEK FDVKSFCKIL GPLSYSKIKH LRLDGNPLTQ SSLPPDMYEC LRVANEITVN <VEHHHHHH>

General References

Castillo EF., et al, (2016) Eur. J. Immunol. 46:2852-2861.
Ying S., et al, (1997) J. Biol. Chem. 272:30306-30313.

DATA

SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.