

32-13305: LUM Mouse

Alternative Name : Lum, Ldc, SLRR2D, Lumican, Keratan sulfate proteoglycan lumican, KSPG lumican.

Description

Source: Sf9, Baculovirus cells.

Sterile Filtered colorless solution.

Lumican also known as LUM is a part of the small leucine-rich proteoglycan (SLRP) family which comprises decorin, biglycan, fibromodulin, keratocan, epiphykan, and osteoglycin. Furthermore, we can see that in these bifunctional molecules, the protein moiety binds collagen fibrils and the highly charged hydrophilic glycosaminoglycans regulate interfibrillar spacings. Lumican is the main keratan sulfate proteoglycan of the cornea however LUM is also distributed in interstitial collagenous matrices throughout the body. Lumican regulates collagen fibril organization and circumferential growth, corneal transparency, epithelial cell migration and tissue repair.

LUM Mouse Recombinant produced in Sf9 Baculovirus cells is a single, glycosylated polypeptide chain containing 328 amino acids (19-338 a.a) and having a molecular mass of 37.5kDa (Migrates at 40-57kDa on SDS-PAGE under reducing conditions). LUM is fused to an 8 amino acid His-tag at C-terminus & purified by proprietary chromatographic techniques.

Product Info

Amount : 2 µg / 10 µg

Purification : Greater than 95.0% as determined by SDS-PAGE.

Content : LUM protein solution (0.5mg/ml) containing Phosphate Buffered Saline (pH 7.4) and 20% glycerol.

Storage condition : Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

Amino Acid : QYYDYDIPLF MYGQISPNC A PECNCPHSYP TAMYCDDLKL KSVPMVPPGI KYLYLRNNQIDHIDEKAFEN
VTDLQWLILD LLENSKIK GKVFSLKQL KKLHINYNNL TESVGPLPKSLQDLQLTNNK ISKLGSFDGL
VNLTFIYLQH NQLKEDAVSA SLKGLKSLEY LDLSFNQMSKLPAGLPTSLL TLYLDNNKIS NIPDEYFKRF
TGLQYLRLSH NELADSGVPG NSFNISSLLELDLSYNKLKS IPTVNENLEN YYLEVNELEK FDVKSFCKIL
GPLSYSKIKH LRLDGNPLTQ SSLPPDMYEC LRVANEITVN VEHHHHHH.