

Human, Lumican Human Recombinant Protein, Sf9

Catalog Number: PROTP51884-1

Introduction

Lumican also known as LUM belongs to 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. Among the diseases associated with LUM is posterior amorphous corneal dystrophy.

Overview

| | |
|--------------|--|
| Product Name | Human, Lumican Human Recombinant Protein, Sf9 |
| Description | LUM Human Recombinant produced in Sf9 Baculovirus cells is a single, glycosylated polypeptide chain containing 329 amino acids (19-338 aa) and having a molecular mass of 37.7kDa (Migrates at 40-57kDa on SDS-PAGE under reducing conditions). LUM is expressed with a 6 amino acid His tag at C-Terminus and purified by proprietary chromatographic techniques. |
| Size | 2ug, 10ug, 1mg |
| Tag | |
| Form | Sterile filtered colorless solution. |
| Source | Sf9, Baculovirus cells. |
| Formulation | LUM protein solution (0.5mg/ml) contains Phosphate buffered saline (pH7.4) and 10% glycerol. |

Concentration

Storage

Store at -20°C for one year. For short term storage and frequent use, store at 4°C for up to one month. Avoid repeated freeze-thaw cycles.

Purity

Greater than 95.0% as determined by SDS-PAGE.

Amino Acid Sequence

ADLQYYDYDF PLSIYGQSSP NCAPECNCPE SYPSAMYCDE LKLKSVPMVP PGIKYLYLRN NQIDHIDEKA FENVTDLQWL ILDHNLLNS
KIKGRVFSKL KQLKKLHINH NNLTESVGPL PKSLEDLQLT HNKITKLGSF EGLVNLTFIH LQHNRLKEDA VSAAFKGLKS LEYLDLSFNQ IARLP SGLPV
SLLTLYLDNN KISNIPDEYF KRFNALQYLR LSHNELADSG IPGNSFNVSS LVELDLSYNK LKNIPTVNEN LENYYLEVNQ LEKFDIKSFC KILGPLSYSK
IKHLRLDGNR ISETSLPPDM YECLRVANEV TLNHHHHHH [?/description_after_attributes?](#)

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