9051 Mira Mesa Blvd, #910094
San Diego, CA 92191
Tel: 760-390-3989

LUM Mouse

Lumican Mouse Recombinant
RCP1281

Product Overview

Name	LUM Mouse
Description	
Lumican Mouse Recombinant	
Accession (Primary)	P51885
Synonyms	
Lum, Ldc, SLRR2D, Lumican, Keratan sulfate proteoglycan lumican, KSPG lumican.	
Introduction	
Lumican also known as LUM is a part of the small leucine-rich proteoglycan (SLRP) family which comprises decorin, biglycan, fibromodulin, keratocan, epiphycan, 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.	
Source	
Sf9, Baculovirus cells.	
Physical Appearance	
Sterile Filtered colorless solution.	
Formulation	
LUM protein solution (0.5mg/ml) containing Phosphate Buffered Saline (pH 7.4) and 20% glycerol.	
Stability	
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.	
Purity	
Greater than 95.0% as determined by SDS-PAGE.	
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	

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NELADSGVPG NSFNISSLLE LDLSYNKLKS IPTVNENLEN YYLEVNELEK FDVKSFCKIL GPLSYSKIKH LRLDGNPLTQ SSLPPDMYEC LRVANEITVN VEHHHHHH .

Precautions

LUM Mouse is for research use only and not for use in diagnostic or therapeutic procedures.

Target Information: (P51885)