



# Recombinant Rat Lumican (Lum)

<b>Product Code</b>	CSB-EP013234RA-B
<b>Storage</b>	Store at -20°C, for extended storage, conserve at -20°C or -80°C.
<b>Uniprot No.</b>	P51886
<b>Product Type</b>	Recombinant Protein
<b>Immunogen Species</b>	Rattus norvegicus (Rat)
<b>Purity</b>	≥85% (SDS-PAGE)
<b>Sequence</b>	QY YDYDAPLFMY GELSPNCAPE CNCPHSYPTA MYCDDLKLS VPMVPPGIKY LYLRNNQIDH IDEKAFENV T DLQWLILDHN LLENSKIKGK VFSKCLKQLKK LHINYNNLTE SVGPLPKSLQ DLQLANNKIS KLGSFDGLVN LTFIYLQHNQ LKEEAVSASL KGLKSLEYLD LSFNQMSKLP AGLPTSLTL YLDNNKITNI PDEYFNRFTG LQYLRLSHNE LADSGVPGNS FNISSLELD LSYNKLSIP TVNENLENY LEVNKLEKFD VKSFCKILGP LSYSKIKHLR LDGNPLTQSS LPPDMYECLR VANEITVN
<b>Source</b>	E.coli
<b>Target Names</b>	Lum
<b>Protein Names</b>	Recommended name: Lumican Alternative name(s): Keratan sulfate proteoglycan lumican Short name= KSPG lumican
<b>Expression Region</b>	19-338
<b>Notes</b>	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
<b>Tag Info</b>	Tag type will be determined during the manufacturing process.
<b>Protein Length</b>	Full Length of Mature Protein
<b>Target Details</b>	This gene encodes a member of the small leucine-rich proteoglycan (SLRP) family that includes decorin, biglycan, fibromodulin, keratocan, epiphygan, and osteoglycin. In these bifunctional molecules, the protein moiety binds collagen fibrils and the highly charged hydrophilic glycosaminoglycans regulate interfibrillar spacings. Lumican is the major keratan sulfate proteoglycan of the cornea but is also distributed in interstitial collagenous matrices throughout the body. Lumican may regulate collagen fibril organization and circumferential growth, corneal transparency, and epithelial cell migration and tissue repair.
<b>Reconstitution</b>	We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.
<b>Shelf Life</b>	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life



of lyophilized form is 12 months at -20°C/-80°C.