



Recombinant Rat Lumican (Lum)

Product Code	CSB-BP013234RA
Storage	Store at -20°C, for extended storage, conserve at -20°C or -80°C.
Uniprot No.	P51886
Product Type	Recombinant Protein
Immunogen Species	Rattus norvegicus (Rat)
Purity	≥85% (SDS-PAGE)
Sequence	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 Y LEVNKLEKFD VKSFCKILGP LSYSKIKHLR LDGNPLTQSS LPPDMYECLR VANEITVN
Source	Baculovirus
Target Names	Lum
Protein Names	Recommended name: Lumican Alternative name(s): Keratan sulfate proteoglycan lumican Short name= KSPG lumican
Expression Region	19-338
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	Tag type will be determined during the manufacturing process.
Protein Length	Full Length of Mature Protein
Target Details	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.
Reconstitution	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.
Shelf Life	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.