

For Research Use Only

Recombinant Rat Lumican protein (mFc Tag)



Catalog Number: Eg3409

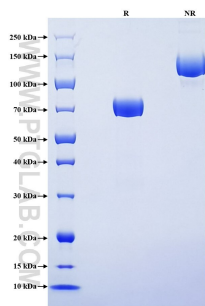
Basic Information	Species: Rat	Purity: >90 %, SDS-PAGE	Tag: mFc Tag
Technical Specifications	Purity: >90 %, SDS-PAGE Endotoxin Level: <0.1 EU/µg protein, LAL method Source: HEK293-derived Rat Lumican protein Gln19-Asn338 (Accession# P51886) with a mouse IgG Fc tag at the N-terminus. GeneID: 81682 Accession: P51886 Predicted Molecular Mass: 64.2 kDa SDS-PAGE: 65-80 kDa, reducing (R) conditions Formulation: Lyophilized from 0.22 µm filtered solution in PBS, pH 7.4. Normally 5% trehalose and 5% mannitol are added as protectants before lyophilization.		
Biological Activity	Not tested		
Storage and Shipping	Storage: It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles. • Until expiry date, -20°C to -80°C as lyophilized proteins. • 3 months, -20°C to -80°C under sterile conditions after reconstitution. Shipping: The product is shipped at ambient temperature. Upon receipt, store it immediately at the recommended temperature.		
Reconstitution	Briefly centrifuge the tube before opening. Reconstitute at 0.1-0.5 mg/mL in sterile water.		
Background	Lumican is a member of the small leucine-rich proteoglycan (SLRP) family whose expression involves many organ/tissue systems, e.g. cornea, sclera, aorta, cartilage, liver, skeletal muscle, kidney, pancreas, brain, placenta, lung, etc. Lumican is an ECM matrine that regulates multiple cellular activities and also has anti-MMP activity, anti-tumor activity, and promotes corneal epithelial wound healing, regulating gene expression and maintaining corneal homeostasis. Furthermore, Lumican is expressed in various cancer tissues and is reported to have a positive or negative correlation with tumor progression.		
References	1. Giatagana EM, et al. (2021) Biomolecules. 11(9):1319. 2. Tsui MC, et al. (2023) Ocul Surf. 29:388-397. 3. Smith MM and Melrose J. (2024) Int J Mol Sci. 25(5):2825.		
Synonyms	Keratan sulfate proteoglycan lumican, KSPG lumican, Lcn, Ldc, Lum		

For technical support and original validation data for this product please contact

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Selected Validation Data



Purity of Recombinant Rat Lumican was determined by SDS-PAGE. The protein was resolved in an SDS-PAGE in reducing (R) and non-reducing (NR) conditions and stained using Coomassie blue.