For Research Use Only

Recombinant Rat Lumican protein (rFc Tag)

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Catalog Number: Eg3410

Basic Information

Species:
Rat

Purity:
>90 %, SDS-PAGE

Tag:
rFc Tag

Technical Specifications

Purity:
>90 %, SDS-PAGE

Endotoxin Level:
<1.0 EU/ μ g protein, LAL method

Source:
HEK293-derived Rat Lumican protein Gln19-Asn338 (Accession# P51886) with a rabbit IgG Fc tag at the N-terminus.

GeneID:
81682

Accession:
P51886

Predicted Molecular Mass:
63.7 kDa

SDS-PAGE:

Formulation:
Lyophilized from sterile 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℃ to -80℃ as lyophilized proteins.
- 3 months, -20℃ to -80℃ 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 matrikine 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

Selected Validation Data