Recombinant LAMC2 protein (His tag)

Catalog Number	544942
Synonyms	Cell-scattering factor 140 kDa subunit; CSF 140 kDa subunit; Epiligrin subunit gamma; Kalinin subunit gamma; Kalinin/nicein/epiligrin 100 kDa subunit; Ladsin 140 kDa subunit; Laminin B2t chain; Laminin-5 subunit gamma; Large adhesive scatter factor 140 kDa subunit; Nicein subunit gamma
Species	Human
Expression System	E. coli
Accession	Q13753
Molecular Weight	Predictes a molecular mass of 19.64 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 21 kDa band.

Product Information

Sequence Region	763-923
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>90%, by SDS-PAGE with Coomassie Brilliant Blue staining.
Endotoxin	Not tested.
Activity	Not tested.
Stability	Samples are stable for up to twelve months from date of receipt at -70℃
Protein Construction	DNA encoding 763-923 aa (Q13753) were fused with 6His tag.

Storage & Handling

Reconstitution	Reconstitute at 0.25 μg/μl in sterile water for short-term storage. Reconstitution with 50% glycerol solution is recommended for longer term storage (see Stability and Storage for more details). If a different concentration is needed for your purposes please adjust the reconstitution volume as required (please note: the ion concentration of the final solution will vary according to the volume used). Note: Centrifuge vial before opening. When reconstituting, gently pipet and wash down the sides of the vial to ensure full recovery of the protein into solution.
Storage	Store it under sterile conditions at -20℃ to -80℃. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
Shipping	In general, recombinant proteins are provided as lyophilized powder which are shipped at ambient temperature. Bulk packages of recombinant proteins are provided as frozen liquid. They are shipped out with blue ice unless customers require otherwise.

Description

Description	Introducing the recombinant Laminin subunit gamma-2 fragment (residues 763-923), a highly stable and soluble protein segment derived from human LAMC2. This fragment is expertly engineered for structural and biochemical studies, enabling researchers to explore the functional domains of laminin-5, a key extracellular matrix protein involved in cell adhesion and migration. Laminin subunit gamma-2 is a critical component of laminin-5, an extracellular matrix protein that binds to high-affinity cellular receptors to mediate cell attachment, migration, and tissue organization during embryonic development. It functions as part of ladsin, exhibiting potent cell-scattering activity across epithelial, endothelial, and fibroblastic cell types. The protein is secreted and localizes to the extracellular space, extracellular matrix, and basement membrane, where it serves as a major structural element. This fragment represents a computationally optimized region selected for its stability and solubility, facilitating detailed investigations into laminin-5's role in cellular dynamics and matrix interactions.