Recombinant LAMC3 protein (His tag)

Catalog Number	543984
Synonyms	Laminin-12 subunit gamma; Laminin-14 subunit gamma; Laminin-15 subunit gamma
Species	Human
Expression System	E. coli
Accession	Q9Y6N6
Molecular Weight	Predictes a molecular mass of 13.10 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 13 kDa band.

Product Information

Sequence Region	1077-1182
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>86%, 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 1077-1182 aa (Q9Y6N6) 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	Recombinant Human Laminin subunit gamma-3 fragment (residues 1077-1182) is a stable and soluble protein unit designed for structural and biochemical studies. This 106-amino acid fragment enables researchers to investigate the role of laminin in cell adhesion, migration, and tissue organization with high reliability. Laminin subunit gamma-3, encoded by the LAMC3 gene, is a key extracellular matrix component that binds to high-affinity cellular receptors. Through this interaction, laminin mediates critical processes such as cell attachment, migration, and tissue organization during embryonic development. It functions within the extracellular space and basement membrane, where it collaborates with other matrix molecules to support structural integrity and cellular communication. The full-length protein's role in extracellular matrix formation underscores its importance in developmental biology and tissue engineering research.