

Recombinant Human LAMC3 Protein (Cys901-Gly1100), N-GST tagged

Cat. No. LAMC3-3759H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human LAMC3 (Cys901-Gly1100) fused with the N-GST tag was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	Cys901-Gly1100
Description	Laminins, a family of extracellular matrix glycoproteins, are the major noncollagenous constituent of basement membranes. They have been implicated in a wide variety of biological processes including cell adhesion, differentiation, migration, signaling, neurite outgrowth and metastasis. Laminins are composed of 3 non identical chains: laminin alpha, beta and gamma (formerly A, B1, and B2, respectively) and they form a cruciform structure consisting of 3 short arms, each formed by a different chain, and a long arm composed of all 3 chains. Each laminin chain is a multidomain protein encoded by a distinct gene. Several isoforms of each chain have been described. Different alpha, beta and gamma chain isomers combine to give rise to different heterotrimeric laminin isoforms which are designated by Arabic numerals in the order of their discovery, i.e. alpha1beta1gamma1 heterotrimer is laminin 1. The biological functions of the different chains and trimer molecules are largely unknown, but some of the chains have been shown to differ with respect to their tissue distribution, presumably reflecting diverse functions in vivo. This gene encodes the gamma chain

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isoform laminin, gamma 3. The gamma 3 chain is most similar to the gamma 1 chain, and contains all the 6 domains expected of the gamma chain. It is a component of laminin 12. The gamma 3 chain is broadly expressed in skin, heart, lung, and the reproductive tracts. In skin, it is seen within the basement membrane of the dermal-epidermal junction at points of nerve penetration. Gamma 3 is also a prominent element of the apical surface of ciliated epithelial cells of lung, oviduct, epididymis, ductus deferens, and seminiferous tubules. The distribution of gamma 3-containing laminins along ciliated epithelial surfaces suggests that the apical laminins are important in the morphogenesis and structural stability of the ciliated processes of these cells.

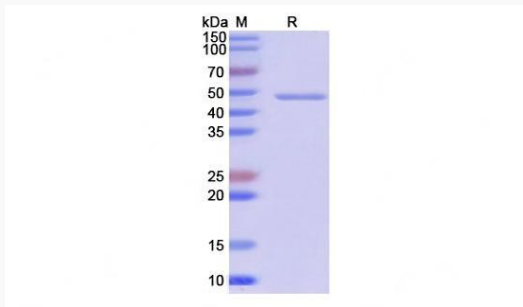
Form	Lyophilized powder/frozen liquid
Molecular Mass	48.57 kDa
Purity	>90% as determined by SDS-PAGE.
Notes	For research use only.
Storage	Use a manual defrost freezer and avoid repeated freeze thaw cycles. Store at 2 to 8 centigrade for one week. Store at -20 to -80 centigrade for twelve months from the date of receipt.
Storage Buffer	0.01M PBS, pH 7.4, 0.02% NLS
Reconstitution	Reconstitute in sterile water for a stock solution.
Shipping	They are shipped out with dry ice/blue ice unless customers require otherwise.

GENE INFORMATION

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Gene Name	LAMC3 laminin subunit gamma 3 [Homo sapiens (human)]
Official Symbol	LAMC3
Synonyms	LAMC3; laminin subunit gamma 3; OCCM; laminin subunit gamma-3; laminin, gamma 3; laminin-12 subunit gamma; laminin-14 subunit gamma; laminin-15 subunit gamma
Gene ID	10319
mRNA Refseq	NM_006059
Protein Refseq	NP_006050
MIM	604349
UniProt ID	Q9Y6N6
SDS-PAGE	 The SDS-PAGE gel image shows two lanes. Lane M contains molecular weight markers with labels at 150, 100, 70, 50, 40, 35, 25, 20, 15, and 10 kDa. Lane R shows a single, prominent protein band at approximately 45 kDa.