

## LAMB1 Protein, Human, Recombinant (His & SUMO)

### General Information

Synonyms:	Laminin B1 chain;Laminin-1 subunit beta;Laminin-8 subunit beta;Laminin-10 subunit beta;Laminin-2 subunit beta;Laminin-12 subunit beta;LAMB1;Laminin-6 subunit beta;Laminin subunit beta-1
Protein Construction:	1533-1782 aa
Species:	Human
Expression Host:	E. coli
Accession:	P07942
Molecular Weight:	44.3 kDa (predicted)
AA Sequence:	MPSTPQQQLQNLTEDIRERVESLSQVEVILQHSAADIARAEMLLLEEAKRASKSATDVKVTADMVKEALEEEA EKAQVAAEKAIKQADEDIQGTQNLLTSIESETAASEETLFNASQRISLERNVEELKRKAAQNSGAEYIEKVVYTVK QSAEDVKKTLDGELDEKYKKVENLIAKKTEESADARRKAEMLQNEAKTLLAQANSKLQLLKDRLERKYEDNQR YLEDKAQELARLEGEVRSLLKDISQKVAVY

### QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	> 85% as determined by SDS-PAGE.
Endotoxin:	< 1.0 EU/μg of the protein as determined by the LAL method.
Formulation:	Tris-based buffer, 50% glycerol

### Preparation and Storage

#### Reconstitution:

A Certificate of Analysis (CoA) containing reconstitution instructions is included with the products. Please refer to the CoA for detailed information.

#### Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

#### Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

### Protein Background

Binding to cells via a high affinity receptor, laminin is thought to mediate the attachment, migration and organization of cells into tissues during embryonic development by interacting with other extracellular matrix

components. Involved in the organization of the laminar architecture of cerebral cortex. It is probably required for the integrity of the basement membrane/glia limitans that serves as an anchor point for the endfeet of radial glial cells and as a physical barrier to migrating neurons. Radial glial cells play a central role in cerebral cortical development, where they act both as the proliferative unit of the cerebral cortex and a scaffold for neurons migrating toward the pial surface.

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