



### Product Details

Laminin- $\alpha$ 2 is a critical component of the laminin heterotrimer, which along with laminin- $\beta$ 1 or  $\beta$ 2 and laminin- $\gamma$ 1 form the structural glycoproteins laminin-211 and laminin-221 in skeletal muscle. Laminin-211 is the most abundant laminin isoform in the basement membrane of adult skeletal muscle. Laminin-211 and -221 polymerize with each other and interact with nidogen and collagen-IV to form the muscle basal lamina. Laminin-211 and laminin-221 bind to muscle cell surface through the  $\alpha$ 7 $\beta$ 1 integrin and  $\alpha$ -dystroglycan of the dystrophin glycoprotein complex via their globular C-terminal domains.

### Key parameter

Purity (SDS PAGE)	> 90%
Mycoplasma Test	Negative
Sterility Test	Negative
Endotoxin Test	< 0.1 EU per $\mu$ g

### Reconstitution

Please see Certificate of Analysis for specific instructions.

*For best performance, we strongly recommend you to follow the reconstitution protocol provided in the CoA.*

### Formulation

Lyophilized from 0.22  $\mu$ m filtered solution in PBS, pH7.4 with trehalose as protectant.

Contact us for customized product form or formulation.

### Storage

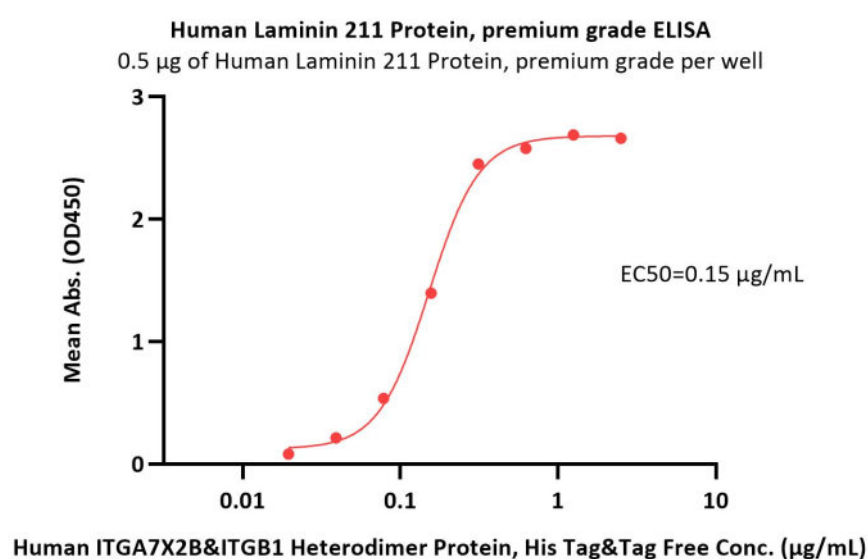
For long term storage, the product should be stored at lyophilized state at  $-20^{\circ}\text{C}$  or lower.

*Please avoid repeated freeze-thaw cycles.*

This product is stable after storage at:

- $-20^{\circ}\text{C}$  to  $-70^{\circ}\text{C}$  for 12 months in lyophilized state;
- $-70^{\circ}\text{C}$  for 3 months under sterile conditions after reconstitution.

### Bioactivity-ELISA



Immobilized Human Laminin 211 Protein, premium grade (Cat. No. LA8-H5263) at 5  $\mu$ g/mL (100  $\mu$ L/well) can bind Human ITGA7X2B&ITGB1 Heterodimer Protein, His Tag&Tag Free (Cat. No. IT1-H52W8) with a linear range of 0.02-0.313  $\mu$ g/mL (QC tested).

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