

Native Human Laminin protein

Cat. No. Laminin-33H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Native Human Laminin was purified from Human fibroblasts. This laminin product is produced by human fibroblasts and epithelial cells in a co-culture system and then purified biochemically.
Species	Human
Source	Human Fibroblasts
Description	Laminin is an extracellular matrix multidomain trimeric glycoprotein, and is the main non-collagenous component of basal lamina that supports adhesion, proliferation and differentiation. Laminin is composed of both A, B1 and B2 chains, which are connected by many disulfide bonds. This laminin product is produced by human fibroblasts and epithelial cells in a co-culture system and then purified biochemically. Laminin proteins are integral components of structural scaffolding in animal tissues. They associate with type IV collagen via entactin and perlecan and bind to cell membranes through integrin receptors, dystroglycan glycoprotein complexes and Lutheran blood group glycoproteins. Laminin has active domains for collagen binding, cell adhesion, heparin binding, and neurite outgrowth fragment.
Form	This product is supplied at a concentration of 0.5 mg/mL in TBS.
Applications	Laminin supports growth and differentiation of many cell types including epithelial, endothelial, neural, muscle and liver cells. It is recommended for use as a cell culture substratum at 1-2 µg/cm ² . The optimal concentration does depend on cell type as

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well as the application or research objectives.

Storage

It is recommended to store this product at -70 centigrade, where it will remain stable for two years. Thaw this solution slowly before use at 2-8 centigrade to avoid gel formation. For use as a coating, dilute in a HBSS, coat culture surface with a minimal volume and incubate at 37 centigrade for 1-2 hours. Wash 3 times with HBBS before plating cells. Laminin coatings can be stored for one month at 2-8 centigrade.

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