

Native Human Laminin protein

Cat. No. Laminin-32H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Native Human Laminin was purified from Human placenta. This laminin product is purified from human placenta using pepsin treatment and immunoaffinity chromatography.
Species	Human
Source	Human placenta
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 purified from human placenta using pepsin treatment and immunoaffinity chromatography. 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 50 mM Tris-HCl, with 150 mM NaCl.
Molecular Mass	SDS-PAGE results in two major bands at 50 kDa and 130-160 kDa.
Applications	Laminin supports growth and differentiation of many cell types including epithelial,

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endothelial, neural, muscle and liver cells. It is recommended for use as a cell culture substratum at 1-2 $\mu\text{g}/\text{cm}$. The optimal concentration does depend on cell type as well as the application or research objectives.

Usage

suitable for cell culture

Storage

It is recommended to store this product at -70 centigrade, where it will remain stable for two years. It is sterile-filtered using a 0.2 μm filter. Thaw this solution slowly before use at 2-8 centigrade to avoid gel formation. For use as a coating, dilute in a sterile balanced salt solution, coat culture surface with a minimal volume and incubate at 37 centigrade for two hours. Wash 3 times with PBS before plating cells. Laminin coatings can be stored for one month at 2-8 centigrade.

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