

Rev05
Update: Aug,20,2025

DATASHEET

Laminin 521, Human

Cat. No.: Z03817

Product Introduction

Species	Human
Purity	≥ 95%
Endotoxin Level	< 1 EU/ml
Expression System	Mammalian cells
Apparent Molecular Weight	The trimeric protein is represented by three individual bands (90-110 kDa, 40-50 kDa, 27-30 kDa) in reducing Tris-Bis PAGE
Application	<ul style="list-style-type: none">• Supports stable self-renewal of hPSCs• Improved recovery and survival following passage of singularized PSCs in the absence of ROCK inhibitors• MSC and other stem cell culture• Maintain the differentiation potential of cells in long-term culture• Other related applications
Formulation	PBS, pH 7.4
Concentration	0.1 mg/ml
Storage & Stability	Stable at -20°C to -80°C for 2 years from the date of receipt. 3 months at 2-8°C after thaw.

Background

Target Background : Laminin 521, composed of alpha 5, beta 2, and gamma 1 chains, is a reliable matrix for feeder-free culture of human embryonic (hES) and induced pluripotent (hiPS) stem cells. When combined with defined maintenance media, Laminin 521 consistently supports self-renewal of human hES and hiPS cells without spontaneous differentiation.

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