

Active Recombinant Human Laminin $\alpha 4$

Cat. No. LAMA4-6952H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human Laminin $\alpha 4$ protein, was expressed in Chinese Hamster Ovary cell line, CHO derived and purified by SDS-PAGE
Species	Human
Source	CHO
Description	Laminin subunit $\alpha 4$ is a protein that in humans is encoded by the LAMA4 gene. Laminins, a family of extracellular matrix glycoproteins, are the major noncollagenous constituent of basement membranes. They have been implicated in a wide variety of biological processes including cell adhesion, differentiation, migration, signaling, neurite outgrowth and metastasis. Laminins are composed of 3 non-identical chains: laminin α , β and γ (formerly A, B1, and B2, respectively) and they form a cruciform structure consisting of 3 short arms, each formed by a different chain, and a long arm composed of all 3 chains. Each laminin chain is a multidomain protein encoded by a distinct gene. Several isoforms of each chain have been described
Molecular Mass	111 kDa
Purity	>90%, by SDS-PAGE under reducing conditions and visualized by silver stain.
Activity	Measured by the ability of the immobilized protein to support the adhesion of HT1080 human fibrosarcoma cells. The ED ₅₀ for this effect is typically 0.7-2.8

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	µg/mL. Optimal dilutions should be determined by each laboratory for each application
Endotoxin Level	<1.0 EU per 1 µg of the protein by the LAL method.
N-terminal Sequence Analysis	Gln826 predicted, sequencing might be blocked, no result obtained
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS.
Reconstitution	Reconstitute at 200 µg/mL in PBS
Storage	Use a manual defrost freezer and avoid repeated freeze thaw Cycles. 12 months from date of receipt, -20 to -70°C as supplied. 1 month, 2 to 8 °C under sterile conditions after reconstitution. 3 months, -20 to -70°C under sterile conditions after reconstitution.

GENE INFORMATION

Gene Name	LAMA4 laminin, alpha 4 [Homo sapiens]
Official Symbol	LAMA4
Synonyms	LAMA4; laminin, alpha 4; LAMA3; LAMA4*-1; DKFZp686D23145; Laminin-14 subunit alpha; Laminin-8 subunit alpha; Laminin-9 subunit alpha
Gene ID	3910
mRNA Refseq	NM_001105206
Protein Refseq	NP_001098676

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MIM	600133
UniProt ID	Q16363
Chromosome Location	6q21
Pathway	extracellularmatrix structural constituent; receptor binding
Function	African trypanosomiasis; Amoebiasis; ECM-receptor interaction; FOXM1 transcription factor network; Focal adhesion; Pathways in cancer; Small cell lung cancer; Toxoplasmosis

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