

Active Recombinant Mouse Laminin α 4, His-tagged

Cat. No. LAMA4-6954M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse Laminin α 4 protein, was expressed in Mouse myeloma cell line, NS0derived Gln826-Ala1816, with a Cterminal 10-His tag
Species	Mouse
Source	Mammalian Cells
ProteinLength	826-1816 a.a.
Description	Laminin subunit α 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
MolecularMass	112.0 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

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	HT1080 humanfibrosarcoma cells.The ED50 for this effect is typically 1-4µg/mL.
EndotoxinLevel	<1.0 EU per 1 µgof the protein by the LAL method.
N-terminalSequenceAnalysis	Mouse myeloma cellline, NS0 derived Gln826-Ala1816,with a Cterminal10 His tag
Formulation	Lyophilized from a0.2 µm filtered solution in Tris and NaCl, pH 6.0.
Reconstitution	Reconstitute at 200µg/mL in PBS.
Storage	Use a manual defrostfreezer and avoid repeated freeze thaw Cycles. 12 months from date ofreceipt, -20 to -70°C as supplied. 1 month, 2 to 8 °C under sterileconditions after reconstitution. 3 months, -20 to -70°C under sterileconditions after reconstitution.

GENE INFORMATION

Gene Name	Lama4 laminin, alpha 4 [Musmusculus]
Official Symbol	Lama4
Synonyms	Lama4; laminin,alpha 4; MGC141567; laminin subunit alpha-4; laminin [a]4; laminin-8 subunitalpha; laminin-9 subunit alpha; laminin-14 subunit alpha
Gene ID	16775
mRNA Refseq	NM_010681
Protein Refseq	NP_034811

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UniProt ID	P97927
Chromosome Location	10 B1; 10 25.0 cM
Pathway	African trypanosomiasis; Amoebiasis; ECM-receptor interaction; Focal Adhesion; Focal adhesion; Pathways in cancer; Small cell lung cancer; Toxoplasmosis
Function	receptor binding

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