upstate | CHEMICON | Linco
THE EXPERTISE OF UPSTATE®, CHEMICON® AND LINCO® IS NOW A PART OF MILLIPORE

# HUMAN LAMININ PURIFIED PROTEIN

| | | | |
|---|---|---|---|
| **CATALOG NUMBER:** | AG56P | **QUANTITY:** | 100 µg |
| **LOT NUMBER:** | | **CONCENTRATION:** | 0.153 mg/mL |

**ALTERNATE NAMES:** Contains Laminin 1, 2, 3, 6, 8 & 10.

**DESCRIPTION:** AG56P contains a mixture of human laminins containing the beta1 chain, principally laminin 10. This preparation is immunologically and biologically identical to intact human laminin. AG56P is suitable for use in ELISA, production of antiserum, cell adhesion and attachment assays, and neurite-stimulation assays. This pepsinized laminin preparation runs as twin bands migrating at approximately 160kDa and 130kDa by SDS-PAGE under reducing conditions.
Preparation: Chemicon's purified human laminin is prepared from freshly frozen human placenta tissue that is homogenized in PBS with a blender and the mixture centrifuged. The pellet is then washed with 0.5M acetic acid, collected and subjected to and extended Pepsin A digestion. The pepsin digest is neutralized, centrifuged to clear debris, and applied to an antibody column containing mouse anti-human laminin monoclonal 4E10 monoclonal antibody {MAB1921}. The solubilized laminin solution is passed over the column, and utlimately the laminin is released via acidification with KSCN. Then the material is dialyzed against PBS. The antibody 4E10 is specific for laminin beta1 chain. This chain is found in Laminin's 1,2,3,6,8,10 under the native conditions used to purify the material.

**PURITY:** >/= 95% by SDS-PAGE. Purified from a mild pepsin digestion followed by affinity chromatography on monoclonal (4E10) anti-human laminin-Sepharose.

**SOURCE:** Human placenta, tested negative for hepatitis B virus, hepatitis C virus (HCV), HIV-1, HIV-2, HTLV-1, HTLV-2, and Treponema pallidum. Handle as if potentially infectious.

**QUALITY CONTROL:** Each lot is analyzed on SDS-PAGE for band integrity and expected sizes prior to packaging and release

**PRESENTATION:** Purified laminin protein in liquid in PBS with 0.01% sodium azide.

**STORAGE/HANDLING:** Store at -20°C or -70°C in undiluted aliquots for up to 12 months. Avoid repeated freeze/thaw cycles.

**REFERENCES:**

Scarpa, S. et al. (2002). Retinoic acid inhibits fibronectin and laminin synthesis andcell migration of human pleural mesothelioma in vitro. Oncology Reports 9:205-209.

Spessotto, P. et al. (2001). Laminin isoforms 8 and 10 are primary components of the subendothelial basement membrane promoting interaction with neoplastic lymphocytes. Cancer Res. 61:339-347.

Engvall, E. et al. (1986). Mapping of domains in human laminin using monoclonal antibodies: localization of the neurite promoting site. J. Cell Biology 103:2457-2465.

Wewer, U. et.al. (1983). Human Laminin isolated in a nearly intact biologically active form from placenta by limited proteolysis. J. Biol. Chemistry 258:12654-12660.

28820 Single Oak Drive • Temecula, CA 92590
Technical Support: T: 1-800-MILLIPORE (1-800-645-5476) • F: 1-800-437-7502
www.millipore.com

upstate | CHEMICON | Linco

THE EXPERTISE OF UPSTATE®, CHEMICON® AND LINCO® IS NOW A PART OF MILLIPORE

***Important Note:*** *During shipment, small volumes of product will occasionally become entrapped in the seal of the product vial. For products with volumes of 200 µL or less, we recommend gently tapping the vial on a hard surface or briefly centrifuging the vial in a tabletop centrifuge to dislodge any liquid in the container's cap.*

FOR RESEARCH USE ONLY; NOT FOR USE IN DIAGNOSTIC PROCEDURES. NOT FOR HUMAN OR ANIMAL CONSUMPTION



28820 Single Oak Drive • Temecula, CA 92590
Technical Support: T: 1-800-MILLIPORE (1-800-645-5476) • F: 1-800-437-7502
www.millipore.com

05/03/2005/AG56P/LMF