THT Biomaterials GmbH
extracellular platform technology
The Human Touch

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Product information

HUMAN PLACENTA Laminin-111 (Lm111)
Comprising highly purified native human laminin-111, prepared from placenta tissue of individuals that have been shown by certified tests to be negative for antibodies to HIV, HEP-B and THPA (syphilis).

Catalog Number THT0201

Storage Temperature
-20°C up to 3 months, -80°C up to 2 years.

Product description
Laminin-111 allows growth of many cell types. It facilitates *in vitro* cultivation of cells and enhances cell-specific morphology and function. The recommended concentration is at least 0.1 µg/cm^2 of growth surface. Lm111 is liquid at a concentration of 1 mg/mL (> 95% purity by SDS-PAGE).

Precautions and Disclaimer
For R&D use only. Not for drug, household, or other uses. Please consult the Safety Data Sheet for information regarding hazards and safe handling procedures.

Storage/Stability
Following reconstitution, aliquot and freeze. Store stock solutions at -80 °C for long-term storage.

Procedure
Note: The optimal concentration for cell attachment and culture may differ for different cell types, and experimentation may be required to determine the optimal conditions for your cell culture experiments.

Guideline for coating tissue culture plates
1. Add sufficient volume of collagen to provide desired coating concentration. A coating concentration of at least 0.1 µg/cm^2 is recommended, depending on the cell type and the experimental setting.
It is important that the volume added to the dish is sufficient to cover the growth surface. If necessary, dilute the Lm111 stock with PBS/TBS buffer,
2. Keep the growth surface completely covered and incubate for 2 h at room temperature.
3. Tilt the dish just enough to allow excess collagen to drain to the lowest point in dish. Remove excess material with sterile pipette.
4. Now, the plates are ready for use and should not dry.

References
1. Hackethal J, Schuh C, Hofer A, Meixner B, Hennerbichler S, Redl H, Teuschl AH. *Human Placenta Laminin-111 as a Multifunctional Protein for Tissue Engineering and Regenerative Medicine*. Advances in Experimental Medicine and Biology (AEMB) Series: Novel Biomaterials for Regenerative Medicine 2018.
2. Christina M.A.P. Schuh, Xavier Monforte, Johannes Hackethal, Heinz Redl, Andreas H. Teuschl. *Covalent binding of placental derived proteins to silk fibroin improves Schwann cell adhesion and proliferation.* J Mater Sci: Mater Med 27:188, 2016.