



THT Biomaterials GmbH
extracellular platform technology
The Human Touch

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PRODUCT DATA SHEET

Native HUMAN PLACENTA Laminin-111 (Lm111), solution

Comprising highly purified, gamma-sterilized native human laminin-111 (Lm111) prepared from human placenta tissue. Transferring placenta over to THT Biomaterials is based on an informed consent from the newborn's mother.

Catalog Number #THT0201001-1/5/10 mL

Product description

Laminins are major components of basement membranes surrounding nerve or vascular tissues. Laminin-111, the prototype of the family, facilitates a large spectrum of fundamental cellular responses in all eukaryotic cells. HUMAN PLACENTA Laminin-111 facilitates *in vitro* cultivation of cells and enhances cell-specific morphology and function. Please refer to certificate of analysis of the product for detailed information.

Precautions and Disclaimer

This product is for R&D use only. Please consult the Safety Data Sheet for information regarding hazards and safe handling procedures.

Storage

-20°C up to 6 months, -80°C up to 12 months. Avoid multiple freeze thaw cycles.

Application 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.

Guidelines for use

1. Prepare Lm111 in your desired coating concentration. If necessary, dilute the stock solution with PBS buffer, distilled water, or cell culture medium. A coating concentration of at least 2 µg/mL is recommended.
2. Add sufficient volume of Lm111 to each well. It is important that the volume added to the dish is sufficient to cover the growth surface.
3. Keep the plate completely covered and incubate for 60 min at 37°C.
4. Tilt the plate to allow excess Lm111 to drain to the lowest point and remove the remaining excess material with a sterile pipette and use it for your experiments.

References

1. Hackethal J, Schuh CMAP, Hofer A, Meixner B, Hennerbichler S, Redl H, Teuschl AH. Human Placenta Laminin-111 as a Multifunctional Protein for Tissue Engineering and Regenerative Medicine. *Adv Exp Med Biol.* 2018;1077:3-17.
2. Schuh CM, Monforte X, Hackethal J, Redl H, Teuschl AH. Covalent binding of placental derived proteins to silk fibroin improves schwann cell adhesion and proliferation. *J Mater Sci Mater Med.* 2016 Dec;27(12):188.