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extracellular platform technology
The Human Touch

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Product information

HUMAN PLACENTA Collagen-I (COL1), liquid
Comprising highly purified human atelocollagen type 1 in 20 mM HAc, 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 THT0101

Product description
Pepsin-solubilized atelocollagen allows growth and cultivation of many cell types. COL1 is derived from human origin, liquid and prepared at a concentration of 1 mg/mL (> 95% purity by SDS-PAGE).

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

Storage/Stability
Delivery in cool packs. Following reconstitution, aliquot and freeze. Store COL1 stock solutions at -20 °C for up to 12 months. Avoid multiple freeze thaws.

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 personal cell culture settings.

Guideline for 2D coating tissue culture plates

1. Add sufficient volume of COL1 to provide your desired coating concentration. If necessary, dilute your COL1 stock with 20mM HAc. A coating concentration of at least 0.2 µg/cm^2 is recommended, depending on the cell type used and your experimental settings. It is important that the volume added to the well is sufficient to cover the whole growth surface.
2. Keep the plate completely covered and incubate for 60 min at room temperature.
3. Tilt the plate to allow excess COL1 to drain to the lowest point and remove the remaining excess material with a sterile pipette.
4. Air dry the plate, and use.

References

1. Hackethal J, Mühleder S, Hofer A, Schneider KH, Prüller J, Hennerbichler S, Redl H, Teuschl A. *An Effective Method of Atelocollagen Type 1/3 Isolation from Human Placenta and Its In Vitro Characterization in Two-Dimesional and Three-Dimensional Cell Culture Applications.* Tissue Eng Part C Methods. 2017 May;23(5):274-285
2. Hackethal J, Hofer A, Hennerbichler S, Redl H, Teuschl A. *A comparison of enzymatic and non-enzymatic strategies to isolate extracellular matrix (ECM) proteins from human placenta and liposuction fat*. ALTEX Proceedings 8(1), p65, 2019.