

Protocol for cryopreservation of RPTEC/TERT1

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| Evercyte Ord. No.: | CHT-003-0002 |
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| Designation: | RPTEC/TERT1, human renal proximal tubular epithelial cells |
| Freezing medium: | Cryostor® cell cryopreservation medium CS10 (Sigma-Aldrich, Cat# C2874, ready-to-use) |
| Additional reagents: | 0.05 % Trypsin-EDTA (Gibco, Cat# 25300-054, ready-to-use, stored at 4°C) Defined Trypsin Inhibitor (Gibco, Cat# R007-100, ready-to-use, stored at 4°C) PBS (Sigma, Cat# D8537, ready-to-use, stored at RT) ProxUp2 medium (Evercyte, Cat# MHT-003-2) |
| Freezing cells: | detach the cells from the culture vessel by using Trypsin-EDTA and Defined Trypsin Inhibitor as described in protocol <i>Passaging of RPTEC/TERT1 cells</i> resuspend the detached cells in growth medium and centrifuge at 170 g for 5 min discard the supernatant resuspend the resulting cell pellet in the remaining droplet add freezing medium (tempered to 4°C) to reach a cell density of about 1.5-2 x 10⁶ cells/ml (for thawing in a 25 cm² culture flask) add 1 ml of this cell suspension to each pre-cooled cryovial and immediately transfer the cells to -80°C after 24 hours transfer the vials to the liquid nitrogen tank |
| Thawing cells: | When you start cultivating the cells, please transfer the content of the original Evercyte vial containing RPTEC/TERT1 cells into a T25 roux flask as described in the following: add 6 ml of growth medium to a 25 cm² culture flask and place the culture flask in the incubator for at least 30 min to allow the medium to reach 37°C and its normal pH take a vial of frozen cells, rinse it outside with ethanol and pre-warm in the hand until one last piece of frozen cells is seen then, immediately transfer the content of the vial to a 15 ml centrifugation tube prefilled with 9 ml of medium pre-cooled to 4°C and centrifuge for 5 min at 170 g discard the supernatant and resuspend the cell pellet in the remaining droplet add 1 ml of the pre-warmed medium to the cells, transfer the cells to the prepared culture flask and incubate at 37°C in a suitable incubator perform a medium change 24 hours after thawing if the cells are already confluent at this point, they must be passaged as described in protocol <i>Passaging of RPTEC/TERT1 cells</i> for the first passages after thawing, we recommend a split ratio of 1:2 or lower after thawing, cells generally need 2-3 days before they can be passaged, do not split the cells before having reached about 95% confluence |
| Related products: | - ProxUp2 ready-to-use medium, 500 ml (Cat# MHT-003-2) |

- ProxUp2 Kit consisting of basal medium (MHT-003-B) and supplements (MHT-003-2-S)
- ProxUp3 (Cat# MHT-003-3, <u>for US customers</u>), this medium contains all components of ProxUp2 but FBS; <u>before use</u>, <u>2.5 ml FBS must be added to ProxUp3 medium to</u> <u>give rise to ready-to-use ProxUp2 medium</u>

