

Hygromycin-Resistant Mouse Embryonic Fibroblasts, Day E13.5



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Catalog #00324

3 x 10⁶ cells

Product Description

Hygromycin-Resistant Mouse Embryonic Fibroblasts (MEFs) can be used as feeder cells for the maintenance of embryonic stem (ES) cells and induced pluripotent stem (iPS) cells in the undifferentiated state while under selection for a hygromycin-resistance marker that has been successfully incorporated into the ES or iPS cells. The MEFs are resistant to at least 140 µg/mL hygromycin. The cells must be mitotically inactivated by irradiation or mitomycin C treatment prior to forming feeder layers.

Hygromycin-resistant MEF are prepared from day E13.5 post-coitus mouse embryos, obtained from female mice (B6D2F1, B6SJLF1 or C3FeB6F1) crossed with transgenic C57BL/6-TgN (pPWL512hyg) mice containing the hygromycin-resistance gene.

Each vial contains 3 x 10⁶ cells in 1 mL (95% fetal bovine serum and 5% dimethyl sulfoxide).

Stability and Storage

Product stable at -135°C or colder for 6 months from date of receipt. Short-term storage of cells (< 1 month) at -80°C is acceptable, but should be minimized to ensure maximum viability. Thawed samples must be used immediately.

Precautions

Storage of frozen cell products in the vapor phase of a liquid nitrogen storage tank is recommended. Storage in the liquid phase can result in cross contamination if the vial breaks or is not sealed properly. Storage in the liquid phase also increases the potential for liquid nitrogen to penetrate the vial and cause it to explode when removed from storage. Use of a face shield is required as a safety precaution when transferring cells from one container to another. When handling this product do not use sharps such as needles and syringes.

STEMCELL cannot guarantee the biological function or any other properties associated with performance of cells in a researcher's individual assay or culture systems. STEMCELL assures the cells will meet the specifications only when assessed immediately after thawing (before washing) by our test methods.

Handling / Directions for Use

For complete directions for use, please refer to the Technical Manual: Maintenance of Mouse ES & iPS Cells Using ES-Cult™ (Document #29141) available on our website at www.stemcell.com or contact us to request a copy.

All procedures should be carried out using sterile technique in a certified biological safety cabinet.

MEFs can be passaged a limited number of times. Slow growth and a 'stringy' appearance are signs of senescence. Therefore, newly acquired MEFs should be expanded and multiple vials frozen. Alternatively, MEFs can be expanded, irradiated and then frozen. Irradiated MEFs can be used as feeder cells one day after thawing and plating.

All components essential for the maintenance of mouse ES and iPS cells (with the exception of monothioglycerol [MTG] and fetal bovine serum [FBS]) are available as pre-screened ES-Cult™ products from STEMCELL Technologies (ES-Cult™ Mouse ES and iPS Cell Maintenance Kit, Catalog #03150). If non-ES-Cult™ products are substituted, it is essential that they are pre-tested to ensure their ability to maintain mouse ES or iPS cells in the undifferentiated state.

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