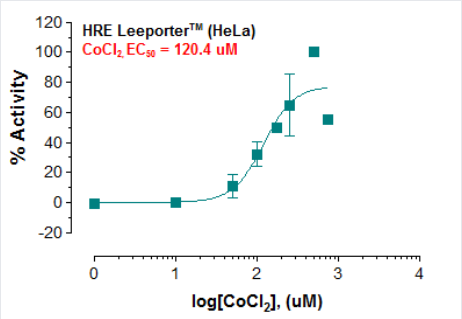
HRE Cell Line

PRODUCT OVERVIEW

Product Name	HRE, Cell Line
Full Product Name	HRE Leeporter HeLa Cell Line
Product Gene Name	HRE cell line
Form/Format	Each vial contains 2 ~ 3 x 10^6 cells in 1 ml of 90% FBS + 10% DMSO.
Preparation and Storage	Immediately upon receipt, store in liquid nitrogen. **Dry Ice Shipment:** Extra charge fee may add to your shipping cost as dry ice is required to ship this product. **Shipping Note:** Product is available for shipment in the United States, Canada and European countries. Please inquire for shipment to other countries.
Dry Ice Shipment	Extra charge fee may add to your shipping cost as dry ice is required to ship this product.
Product Categories/Family for HRE cell line	Cell Lines; Reporter Cell Lines
Applications Tested/Suitable for HRE cell line	Functional Assay
Application Notes for HRE cell line	Monitor the HIF induction activity. Screen for activators or inhibitors of the hypoxia signaling pathway. Culture conditions: Cells should be grown at 37?C with 5% CO2 using DMEM medium supplemented with 10% FBS and 1% Pen/Strep, plus 3 ug/ml of Puromycin. It is recommended to quickly thaw the frozen cells upon receipt or from liquid nitrogen in a 37 degree C water-bath, transfer to a tube containing 10 ml of growth medium without Puromycin, spin down cells, resuspend cells in pre-warmed growth medium without Puromycin, transfer resuspended cells to T25 flask and culture in 37 degree C-CO2 incubator. Leave the T25 flask in the incubator for 2~4 days without disturbing or changing the medium until cells completely recover viability and become adherent. Once cells are over 90% adherent, remove growth medium and passage the cells through trypsinization and centrifugation. At first passage, switch to growth medium containing Puromycin. Cells should be split before they reach complete confluence. To passage the cells, detach cells from culture vessel with Trypsin/EDTA, add complete growth medium and transfer to a tube, spin down cells, resuspend cells and seed appropriate aliquots of cells suspension into new culture vessels. Subcultivation ration = 1: 10 to 1: 20 weekly. Functional validation: A. Response of HRE Leeporter- HeLa cells to cobalt chloride (C degree Cl2). 1. Harvest HRE Leeporter- HeLa cells and seed cells into a white solid-bottom 96-well microplate in 100 ul of growth medium at 5 x 10^4 cells/well. 2. Incubate cells at 37 degree C in a CO2 incubator for overnight. 3. The next day, stimulate cells with various concentrations of C degree Cl2. 4. Incubate at 37 degree C in a CO2 incubator for 6-16 hours. 5. Add 30-50 ul of luciferase assay reagent per well. 6. Incubate at room temperature for 1-5 minutes and measure luminescence using a microplate luminometer.
Related Product Information for HRE cell line	The HRE Leeporter cell line is a stably transfected HeLa cell line which expresses Renilla luciferase reporter gene under the transcriptional control of the hypoxia response element (HRE). In response to hypoxia (low oxygen), HREs of target genes are recognized and regulated by the hypoxia-inducible factors (HIFs) which belong to the family of basic helix-loop-helix transcription factors and form heterodimeric complex comprising the alpha subunit (HIF-1 alpha, HIF-2 alpha and HIF-3 alpha) and beta subunit (Arnt1, Arnt2 and Arnt3), among which HIF-1 alpha and HIF-2 alpha are predominant isoforms. Activation of HIFs can also be mediated by chemical hydroxylase inhibitors as hypoxia mimetics including the iron chelator desferrioxamine and cobalt chloride.
Other Notes	Small volumes of HRE cell line vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for HRE purchase	MBS668854 is a cell line targeting HRE. Also known as HRE Leeporter HeLa Cell Line.



Testing Data of HRE cell line

Fig-1: Induction of HRE activity by cobalt chloride in HRE Leeporter HeLa cells.

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Online datasheet: https://www.mybiosource.com/cell-line/hre/668854