

APPLICATION NOTES

Product: TRANS-MSC

PHENOTYPICALLY RESPONSIVE HUMAN PROGENITOR CELL BASED PLATFORM – A NON-ANIMAL INVITRO PRIMARY TESTING MODEL FOR DRUG REPURPOSING

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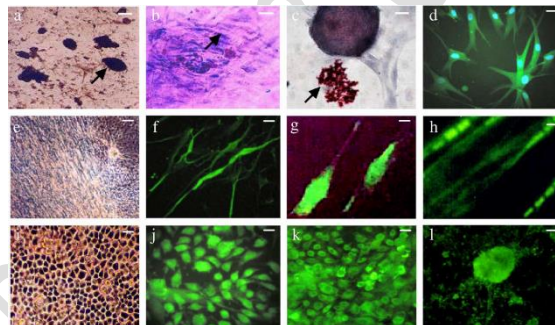
Product Description:

TRAN-MSC is an *invitro* human sourced progenitor/stem cell based platform model composed of undifferentiated cells with self-renewing and differentiating capabilities. Each vial contains cells with mesenchymal phenotype characterized with antibodies specific to CD73, CD90 and CD105. Each unit is negative for HIV-1, HBV, HCV, Mycoplasma, Bacteria, Yeast and Fungi.

Unique platform that can be transdifferentiated to lineage specific cell types upon induction.

Available in frozen condition. Ready to use with customized number per vial.

Phenotypically reactive TRANS-MSC transdifferentiated:



a: osteocytic b: chondrocytic c: adipocytic d: neuronal
e-h: cardiocytic i: hepato j-k: epithelial i: beta cell positive

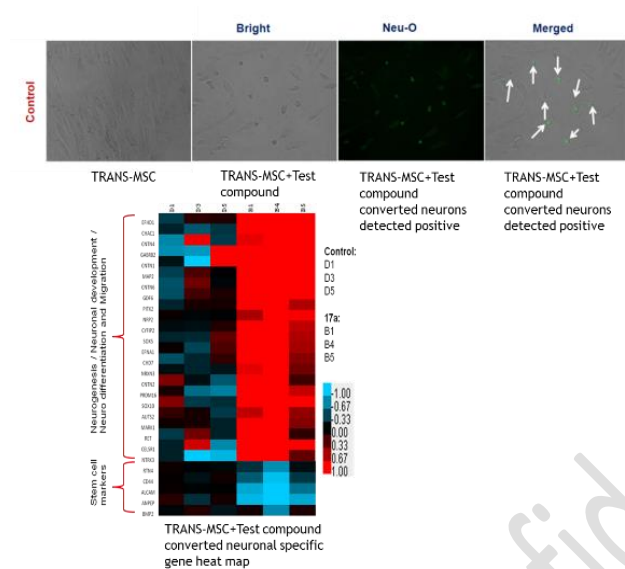
Recommended for:

Exploratory – High Throughput screening of chemical libraries; Primary test for drug repurposing

Measurable end points:

- Phenotype based observations
- Cellular
- Genomics
- Proteomics

The tested chemical is a molecule from chemical library, found to be neuron inducer on TRANS-MSC:



Advantages:

The measured end points on TRANS-MSC are of human relevance

Ready to use; No culturing procedure involved to use; No tissue culture facility required to use; Read outs can be at cellular, molecular and protein levels mimicking human physiological milieu.

Features:

Cultured stem cells packaged as platforms for phenotype based and derived assays. Processed batch wise to be Bioburden free

Benefits:

Best suited as the invitro platform available in abundance, amicable to be modelled to perform exploratory preclinical assays at large scale.

HuSu-TRANS-MSC for:

Screening, Invitro, Repurposing clues

Level of assessment:

Test material's true effect (at cellular, gene and protein specific pathway levels) on the most relevant and sensitive cellular model

Purpose of testing:

Exploratory Preclinical evaluation of the test materials for human application and compatibility