

STEMFluor™-96 Research

A Fluorescence Viability and Proliferation Assay for Stem Cells, Expanded Cells and Cell Lines

The only fluorescence research assay that provides the flexibility to grow and measure cells from a large variety of cell types

Advantages of using STEMFluor™-96 Research

- Use your own protocols to culture and measure virtually any proliferating mammalian cell type.
- Study the properties and characteristics of different stem cells, including ES, iPS, PGCs and isolated stem cells from different organs and tissues.
- Study stem cell self-renewal, expansion ability and potential of stem cells.
- Study *ex vivo* explanted cells from virtually any organ and tissue.
- Culture and study any proliferating cell line or cancer cell line.
- Measures viability, cell functionality, proliferation/cytotoxicity and cell number.
- Study the effects of new growth factors, media and virtually any agents on different cell types.
- Study gene-modified events, such as CRISPR-Cas9, on cells.
- Instrument-based assay and fully quantitative.
- A sensitive and accurate *in vitro* assay system for primitive, primary cells that are few in number.
- A non-destructive assay that allows the detection of different cell types grown in the culture using flow cytometry or high-content screening.
- Multiplex STEMFluor™-96 Research with other assay readouts such as bioluminescence, gene analysis and other readouts to get the most information from a single sample.
- Uses a substrate that is cleaved by protease activity in living cells giving a fluorescence signal that is proportional to the cell number.
- Uses a fluorescence plate reader with Ex380-400nm/Em 505nm filters.
- After cell culture, get results in just 2 hours or less.
- No need to use the whole sterile, 96-well plate provided. Unused wells remain sterile.
- Fast to learn (just 1 day or less) and easy to use.

The Most Versatile Fluorescence Assay Available for Your Stem Cell Research



Assays You Can Trust
Innovative Expertise You Can Count On

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- Embryonic stem (ES) cells
- Induced pluripotent stem (iPSC) cells
- Primordial Germ Cells (PGC)
- ES-, iPSC- and PGC-derived cells
- Primary stem cells
- Endothelial, epithelial, fibroblastoid, muscle and other cell types from:
 - Bladder
 - Brain
 - Breast
 - Eye
 - Gut
 - Heart
 - Kidney
 - Lung
 - Liver
 - Ovary
 - Prostate
 - Skin
- Transformed cell lines
- Cancer cells

What's In The Box:

- Base medium
- GF-AFC Substrate Reagent
- Sterile 96-well plate(s).
- Sterile, adhesive foil covers.
- Assay manual

STEMFluor™-96 Research is available for:

- Adherent cells, and
- Non-adherent cells, as
- 1-plate kits
- 2-plate kits
- 4-plate kits

Related Assays for Stem Cells, Explanted Cells and Cell Lines

- **STEMGlo™-96 Research:** The fully standardized, ATP bioluminescence equivalent of STEMFluor™-96 Research.
- **STEMClone™:** A methylcellulose, clonal proliferation and differentiation assay for the same cell types as STEMFluor™-96 Research. Allows colonies to be counted and their proliferation measured using ATP bioluminescence.
- **STEMLight™-96 Research:** The absorbance/colorimetric equivalent of STEMGlo™-6 Research, but with the standardization capability.
- **STEMGlo™-96 PREP:** Specifically designed to measure stem cell self-renewal and expansion ability and potential using ATP bioluminescence.



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