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HEK293-BFP Stable Cell Line Manual

Catalog Number	Product name	Amount
SC102	HEK293-**BFP** (Bsd) stable cells	1 ml / vial in 80% DMEM, 10% FBS, 10% DMSO

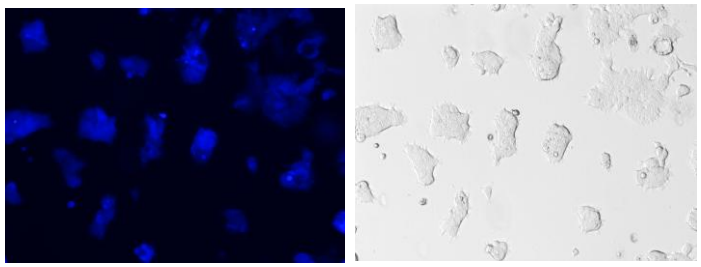
Storage:
Upon received, place vial in Liquid Nitrogen for long-term storage, or saved in -80oC for short-time storage up to 1 week.

1. Product Description

The HEK293 Cell Line is a permanent line established from primary embryonal human kidney cells transformed with sheared human adenovirus type 5 DNA. The expressed E1A adenovirus gene allows these cells to produce very high levels of protein.

HEK293-BFP cells were transformed from the HEK293 cell line and stably express the human-codon, evergreen Blue Fluorescent Protein (**BFP**), wavelength peak: 365-380nm (Ex) / 450-470nm (Em). The cell line was established by transduction with BFP expression lentivirus containing a Blasticidin-resistance gene for selection and maintenance of the stable cells. BFP is constitutively expressed at high-levels under the CMV promoter. The following expression construct was integrated into cell's genome. Each cell demonstrates strong fluorescent signal under microscope (see image below).

CAT#: **SC102**



BFP Filter **Bright Field**

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2. Culture procedures

1. Thaw the frozen vial of cells quickly in a 37°C water bath (1~3min), decontaminate the outside of the vial with 70% ethanol.
2. Transfer the entire contents of the cryovial into a T-75 cm2 flask containing 20 ml of pre-warmed complete medium. Incubate the cells overnight in a 37°C incubator, 5% CO2.
3. On the following day, replace the medium with 20 ml of prewarmed, complete medium.
4. Incubate the cells and monitor cell density.
5. Pass cells (1:5 to 1:10 dilution) using 0.25% Trypsin-EDTA solution when the culture reaches ~90% confluent.
6. Freeze cells at a density of ~3 x 10^6 cells/ml using 90% complete medium with 10% DMSO.

3. Complete medium

DMEM (high glucose)
2mM L-glutamine
10% Fetal Bovine Serum (FBS)
0.1 mM MEM Non-Essential Amino Acids (NEAA)
1% Pen-strep or Antibiotic-antimycoplasma

4. Quality Control

Each vial contains ~2 x 10^6 cells with >95% viability before freezing. Cells are verified to be free of bacteria, viruses, and mycoplasma.

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