FenicsBIO

Product data sheet

HT-Fect™ transfection reagent

Catalog Number: TR-101

Components: HT-Fect™ transfection reagent (1 ml)

HT-Fect™ buffer (15 ml)

Storage:

Components: HT-Fect™ transfection reagent (1 ml): -80°C

HT-Fect™ buffer (15 ml): 4°C

Product description

HT-Fect™ transfection reagent is a polymer-based transfection reagent optimized for delivering nucleic acid into mammalian cells. HT-Fect™ has been used in transfecting a broad range of cell types, including hard-to-transfect T cells, fibroblast cells and neuronal cells. HT-Fect™ is recommended to be used with our shRNA plasmids and gRNA plasmids, and routinely used for our high titer lentivirus production.

Transfection Procedure

Note: all quantity and volume are given on per well of 6-well plate, it should be scale up or down for other cell culture dishes.

1. **Plate cells**

a. For adherent cells, plate cells one day before the transfection experiment so that the cells will be 60%-80% confluent on the day of transfection.

b. For suspension cells, suspension culture cells should be in good growth condition before transfection.

2. **Prepare the HT-Fect™ transfection reagent**

Warm the HT-Fect™ transfection reagent and buffer to room temperature. Mix well before use.

3. **Prepare transfection complex**

1) Solution A: Add 2 ug DNA to a sterile 1.5 ml centrifuge tube and dilute with HT-Fect™ buffer to final volume of 20 µl.
2) Solution B: Add 2 ul of HT-Fect™ transfection reagent to a sterile 1.5 ml centrifuge tube and dilute with HT-Fect™ buffer to 20 µl.
3) Mix Solution A and B and incubate at room temperature for 15 minutes.

4. **Add transfection complex to the cells**

1) Dilute 40 µl of the above transfection complex by adding 1ml of Opti-MEM or other serum-free growth medium

2) a. For adherent cells, Aspirate the growth medium from the wells, and add the above diluted transfection complex to the well.
b. For suspension cells, centrifuge the cells at 400 g for 5 minutes, remove the culture medium, and resuspend the cells with the above diluted transfection complex, put the cells into the cell culture plate.
3) Return cells to the incubator.

5. **Change back to complete cell culture medium 2 hour to overnight post-transfection.**

6. **Incubate the cells for 48-96 hours prior to check transgene expression.**