

User Manual

PGbioFect Exosome Transfection Reagent

Product Description

PGbioFect Exosome transfection reagent is a specially designed and optimized transfection reagent for exosome transfection, used to introduce siRNA, miRNA, etc., into various exosomes. PGbioFect Exosome is a proprietary, optimized RNAi-specific nano-formulation applicable to transfection of various exosomes.

PGbioFect Exosome transfection reagent offers the following advantages compared to other products:

- ♦ Excellent transfection efficiency, requiring lower concentrations of RNAi and miRNA to achieve more effective gene delivery, with minimal nonspecific effects. It is also suitable for miRNA transfection.
- ♦ Applicable to multiple types of exosomes, providing a universal transfection method for exosome transfection experiments. Simple experimental operation process.

The high-efficiency transfection of PGbioFect Exosome transfection reagent can achieve high-level gene delivery for satisfying results. Simply mix PGbioFect Exosome transfection reagent with siRNA/RNA and exosomes, incubate briefly, add to cells, and proceed with subsequent experiments after incubation. The combination of simplicity, speed, and high transfection efficiency makes PGbioFect Exosome transfection reagent an ideal choice for efficient siRNA transfection of exosomes.

Testing results of this product on multiple exosomes show extremely high transfection efficiency, and it is one of the few suppliers of specialized exosome transfection reagents on the market.

Shipping and Storage

Ship with ice packs. Store at 2–8°C. Do not freeze.

Ordering Information

Product Name	Product Number	Specification	Storage
PGbioFect Exosome Transfection Reagent	TR-EXO-030	0.3 mL	2–8°C
PGbioFect Exosome Transfection Reagent	TR-EXO-100	1 mL	2–8°C
PGbioFect Exosome Transfection Reagent	TR-EXO-1500	15 mL	2–8°C

Transfection Protocol

Note 1: The dosage of transfection reagent is affected by exosome types and experimental conditions. It is recommended to set up gradients for optimization when using it for the first time.

01. Prepare miRNA or siRNA with ultrapure water. Take 20 pmol with a total volume not exceeding 20 μ l into a 1.5 ml EP tube.
02. Add 100 μ l Opti-MEM I medium and mix gently with a pipette, do not vortex.
03. Aspirate 6 μ l PGbioFect Exosome transfection reagent into 100 μ l Opti-MEM I medium and mix gently with a pipette, do not vortex.
04. Mix the prepared siRNA/miRNA with the transfection reagent from the previous step and let stand at room temperature for 20 minutes.
05. Take 100 μ g exosomes resuspended in 100 μ l PBS, add to the mixture from the previous step, mix gently with a pipette, and incubate at 37°C for 60 minutes.
06. Ultrafilter the mixture from the previous step using a Millipore 100 kDa Amicon Ultra-0.5 Centrifugal Filter, and retain the liquid in the tube.
07. Mix the product from the previous step with an appropriate amount of cells (generally 1×10^5 – 1×10^6 cells) in a 6-well plate, including the corresponding medium and serum, and culture for 2–3 days.
08. The culture product can be used for downstream detection and experiments.

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