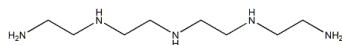


Polyethylenimine, Linear (MW 25000, liquid) Cat. No. M40824**Chemical Information**

Molecular Weight	25000
Formula	(CH ₂ CH ₂ NH) _N
CAS Number	26913-06-4
Storage for long time	-20°C

Biological Activity

Polyethylenimine Linear (PEI) solution consists of a cationic polymer transfection reagent with a molecular weight of 25,000, which forms a complex with nucleic acids and allows the complex to enter mammalian cells.

Transfection procedure (taking 6-well plate as an example)

1. Cell plating plate

To inoculate the cells one day before transfection, and the cell density at the time of transfection is preferably 70%~80%.

2. Transfection process

(1) 2h before transfection, remove the original culture medium from the cells and replace it with fresh complete medium.

(2) To dilute 2μg of target DNA with 50μL of serum-free medium, and mix thoroughly to form a DNA dilution.

[Note]: Opti-MEM or ddH₂O is recommended for serum-free diluent.

(3) Directly add 4 μL of transfection reagent to the DNA diluent. Incubate at room temperature for 10-15 min to form transfection complex.

(4) Add the transfection complex to the cell medium, shake and mix gently.

(5) Continue to cultivate for 24-48 hours, then collect the cells for identification or add the appropriate antibiotics to screen stable clones.

(6) After transfection with this product, peak expression typically starts at 24 hours and reaches its maximum at 36-48 hours, which is approximately 6-12 hours later than Liposomal Transfection Reagent.

Transfection dosage for different cell culture vessels (for reference only):

Culture vessel	Surf. area per well	Vol. of dilution medium	DNA	Transfection reagent	Vol. of plating medium
96-well	0.3cm ²	10uL	0.1ug	0.1uL	100uL
48-well	0.7cm ²	20uL	0.2ug	0.3uL	200uL
24-well	1.9cm ²	50uL	0.5ug	1uL	500uL
12-well	3.8cm ²	50uL	1ug	2uL	1mL
6-well/35mmdish	10cm ²	100uL	2ug	4uL	2mL
60mm dish/T25flask	21cm ²	200uL	4ug	8uL	4mL
100mm dish/T75flask	58cm ²	500uL	10ug	20uL	10mL

References

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