

Pepincell™ Transfection Reagent for siRNA

产品组分	货号	规格
Pepincell™ Transfection	CT0101-500 μ L	0.5 mL
Reagent for siRNA	CT0101-1mL	1 mL

产品说明

Pepincell™ Transfection Reagent for siRNA (货号 CT0101) 是一款新型性能优良的 siRNA 专用转染试剂，可高效将 siRNA 的进行胞内递送和介导基因沉默。该产品创造性的改良了聚合物与小 RNA 的结合方式，与常规阳离子聚合物相比具有更低的离子强度特性，毒性极低，同时具有稳定性好、转染简单、易行、重复性好等优点。

保存条件

该产品性质稳定，可进行常温运输，长期保存 2-8°C 产品有效期 2 年。

注意事项

- 1、该产品为小 RNA 专用转染试剂，无法介导质粒等 DNA 长链核酸的转染；
- 2、建议室温孵育 20 min 以上；
- 3、该产品对细胞覆盖度有较高容忍度，可在细胞 40% 左右覆盖度进行转染不影响细胞活性
- 4、原代细胞或其他极其难转染细胞转染试剂(μ L) : siRNA (pmol) 和可在 1: 5 - 1:10 调节

示例细胞

Pepincell™ Transfection Reagent for siRNA 转染 siRNA 干扰稳定表达 Luciferase 细胞系 Luciferase 敲低效率:



Cell lines	Target gen	Gene silencing efficiency
HEK 293	Luciferase	>90%
GL 261	Luciferase	
4T1	Luciferase	>80%
B16	Luciferase	

24 well plate transfected with 2 μ L Transfection reagent & 20 pmol siRNA/well

使用方法

PepinCell™ Transfection Reagent for siRNA Protocol

Timeline	Procedure		Component	96-well	24-well	6-well
DAY 0	Cell culture	The cell were cultured for 12-24h, cell density 50-60%	Adherent cell inoculation	1-4x 10 ⁴	0.5-1x 10 ⁵	0.25-0.5x 10 ⁶
DAY 1	Transfection reagent dilution	Dilute transfection reagent with PBS and Vortex	PBS	9.2 μ L	46 μ L	234 μ L
			Transfection reagent	0.4 μ L	2 μ L	8 μ L
	siRNA-Complex preparation	Add siRNA to Transfection reagent(diluted)	Transfection reagent (diluted)	9.6 μ L	48 μ L	242 μ L
			siRNA (10 μ M stock solution)	0.4 μ L (4 pmol)	2 μ L (20 pmol)	8 μ L (80 pmol)
			Total volume	10 μ L	50 μ L	250 μ L
			Vortex then Incubate at RT for 20 min			
	siRNA-Complex dilution	Dilute siRNA-Complex with Opti-MEM Reduced Serum Medium	siRNA-Complex	10 μ L	50 μ L	250 μ L
Opti-MEM Reduced Serum Medium			90 μ L	450 μ L	1750 μ L	
		siRNA-Complex (diluted)	100 μ L	500 μ L	2000 μ L	
	Cell transfection	Remove original medium, Add siRNA-Complex (diluted) to cells				
DAY 2-4	Visualize/analyze transfected cells	Incubate cells for 2-4 days at 37°C then analyze transfected cells				

Pepincell™ Transfection Reagent for siRNA Protocol
For Difficult-to-transfect cells

Timeline	Procedure		Component	96-well	24-well	6-well
DAY 0	Cell culture	The cell were cultured for 12-24h, cell density 50-60%	Adherent cell inoculation	1-4x 10 ⁴	0.5-1x 10 ⁵	0.25-0.5x 10 ⁶
DAY 1	Transfection reagent dilution	Dilute transfection reagent with PBS and Vortex	PBS	9.2 μL	46 μL	234 μL
			Transfection reagent	0.4 μL	2 μL	8 μL
	siRNA-Complex preparation	Add siRNA to Transfection reagent(diluted)	Transfection reagent (diluted)	9.6 μL	48 μL	242 μL
			siRNA (10 uM stock solution)	0.4 μL (4 pmol)	2 μL (20 pmol)	8 μL (80 pmol)
			Total volume	10 μL	50 μL	250 μL
			Vortex then Incubate at RT for 20 min			
	siRNA-Complex dilution	Dilute siRNA-Complex with Non-Serum medium	siRNA-Complex	10 μL	50 μL	250 μL
			Non-Serum Medium or Opti-MEM	90 μL	450 μL	1750 μL
			siRNA-Complex (diluted)	100 μL	500 μL	2000 μL
	Cell transfection	Remove original medium, Add siRNA-Complex (diluted) to cells and incubate for 4h				
DAY 2-4	Visualize/analyze transfected cells	Remove siRNA-Complex (diluted) Add new medium, Incubate cells for 2-4 days at 37°C for following analyze				