

# IN vivo Transfection Reagent™

CatNo:IV1215

## I-Application:

- It can be injected intravenously or by local tissue injection in vivo.
- The injection volume is small and the dense tissue can be microinjected, Have a long circulation time in vivo.
- DNA, siRNA and co-transfection can be carried out.

## II-Transfection requirement

Plasmid DNA: 300ng-2ug/ul;  
 Dissolved in ddH<sub>2</sub>O or ultra-pure wate;  
 endotoxin removal;

SiRNA: 20 μM、40 μM、60 μM、80 μM

## III-Operating process

- 1.Complex preparation:Nucleic acid was directly mixed with transfection reagent according to the 1:1 relationship, And use a pipette to blow 10-15 times to mix. After incubation at room temperature for 10-15 minutes, During the preparation of the composite, no liquid residue was ensured on the tube wall.
- 2.Intravenous injection or local tissue injection of the prepared complex with a syringe or microinjection needle.
- 3.After 3 or 5 days of injection, the efficiency of cell transfer reached the peak, and the expression of gene and protein could be detected at this time.

Injection dose of in vivo transfection

Animal	Injection method	Maximum injection volume(ul)	DAN Dosage(ug)	siRNA Dosage(ul)	Transfection test Dosage(ul)
neonatal mouse	intraventricular injection	2	1	1	1
Nude mouse	Tail vein injection	400	62	62	62
	Intratumoral injection	50	17	17	17
Adult mouse	Tail vein injection	400	62	62	62
	intraperitoneal injection	800	100	100	100
	intraventricular injection	5	2.5	2.5	2.5
	Intratumoral injection	50	17	17	17
Adult rat	Tail vein injection	2000	505	505	505

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intraventricular injection	25	15	15	15
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- The ratio of DNA ( $\mu$  g) and 20  $\mu$  M siRNA ( $\mu$  l) to transfection reagent ( $\mu$  l) was 1:1.
- The amount of siRNA used in the above table is 20  $\mu$  M, and if the siRNA concentration is 40  $\mu$  M, the amount of siRNA in the above table is halved, and if the siRNA concentration is 80  $\mu$  M, the amount of siRNA in the above table is divided by 4, and so on.
- When the local tissue injection is performed, the amount of the complex is 5-10  $\mu$  l/cm.
- In the co-transfection experiment, under the condition that the total amount of nucleic acid in the above table remains the same, the proportion of various nucleic acids is adjusted according to the experimental requirements, and then the nucleic acids are mixed and then mixed with the transfection reagent.
- In the specific experimental operation, the dosage of nucleic acid and transfection reagent can be adjusted according to the "maximum injection volume" in the table above.

#### IV-Order Information

Name	Catalog	Size
IN vivo Transfection Reagent™	IV1215025	0.25 ml
IN vivo Transfection Reagent™	IV1215050	0.5 ml
IN vivo Transfection Reagent™	IV1215075	0.75 ml
IN vivo Transfection Reagent™	IV1215100	1 ml
IN vivo Transfection Reagent™	IV1215150	1.5 ml
IN vivo Transfection Reagent™	IV1215300	3 ml