

In Vivo-Targefect

Transfection Protocol

CATALOG NO.	SIZE
IN-VIVO-TARG-001	200 ul
IN-VIVO-TARG-002	600 ul
IN-VIVO-TARG-003	3.2 ml

Description: In Vivo-Targefect transfection reagent is a proprietary, biodegradable polymer-based formulation optimized for intramuscular *in vivo* delivery of plasmid DNA and RNA. *The formulation is free from component of animal origin*

Storage: Store reagent at 4°C upon receipt. If stored properly, reagent is stable for 1 year from date of storage.

Recommended Modes of Administration:

Intramuscular injection

Intended Use:

For research use only. Not intended for any diagnostic or therapeutic use.

TABLE 1 : DOSING

Animal body weight (g)	Transfection Reagent (µl) / per Injection
10 – 35 g (mouse)	20-50 µl
35 – 200 g (small rodents)	50-100 µl
200 – 450 g (rat)	125-250 µl

Recommended Protocol

Gently mix the In Vivo-Targetfect transfection reagent by inverting the tube several times. Use 1 ml conical bottom cryotubes (or Eppendorf tubes) for complex formation.

We recommend trying the following conditions.

Condition 1: Add 20 ug of plasmid DNA to each tube, add water to make the volume to 13 ul, mix well by flicking the tube 10-12 times to create a vortex action (do not vortex). Add 7 ul of In vivo-Targetfect, mix well again by flicking the tube. Incubate at room temperature for 30 min. Inject 20 ul/ mouse intramuscular injection.

Condition 2: Add 50 ug of plasmid DNA to each tube, add water to make the volume to 32.5 ul, mix well by flicking the tube 10-12 times to create a vortex action (do not vortex). Add 17.5 ul of In vivo-Targetfect, mix well again by flicking the tube. Incubate at room temperature for 30 min. Inject 50 ul/ mouse intramuscular injection.

If working with RNA or siRNA use 50 ug of siRNA in place of DNA and complex as above.

Use Table 1 to determine amount to be injected for larger animals and prepare transfection complexes accordingly.

Assay for target gene expression at desired time intervals. We see target gene expression as early as 2 days following intramuscular. Gene expression typically increases at day 14 and is sustained for at least 1 month in mouse models.

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