



Your Partner in Drug Delivery

Injectin
In Vivo siRNA Delivery Kit
Product Information



Description

Injectin *In Vivo* siRNA Delivery Kit contains a new lipid-based formulation which enables the delivery of siRNA into living organisms. Injectin reagent has been especially developed for local and systemic siRNA administrations in mouse. Due to its high efficiency and stability, Injectin reagent is able to maintain *in vivo* silencing of gene expression for a very long time without the need of multiple injection repeats.

Content

- Injectin *In Vivo* siRNA Delivery Reagent.
- Glucose containing buffer, 25 % (w/v) sterile solution.

Catalog Number	Injectin Reagent	Glucose containing buffer	Number of intratumoral injections	Number of intravenous injections
IJ100	100 μ L	100 μ L	10	2
IJ500	500 μ L	500 μ L	50	10

Shipping & Storage

Injectin *In Vivo* siRNA Delivery Kit is shipped at room temperature. Injectin reagent and glucose containing buffer should be stored at 4°C upon receipt and are stable for at least one year at 4°C.

Protocol

This protocol is given for the delivery of 10 μg of siRNA into a mouse tumor. See table 1 below to adapt your protocol for other siRNA delivery routes.

1- Dilute 10 μg of siRNA into 10 μL of glucose containing buffer.

2- Complete to 40 μL with a sterile RNase-free water.

3- Add 10 μL of Injectin reagent and mix by pipetting up and down.

4- Incubate 15 minutes at room temperature.

5- Inject in mouse tumor.

6- Monitor gene expression minimum 72 h after injection.

Table 1

Delivery Routes	siRNA μg^*	Glucose buffer μL	Water q.s.p μL	Injectin reagent μL	Injection volume μL
IntraVeinuous	50	40	150	50	200
IntraPeritoneal	50	40	150	50	200
IntraLiver	25	10	25	25	50
IntraNasal	20	8	20	20	40
IntraTracheal	20	8	20	20	40
IntraTumoral	10	10	40	10	50
IntraMuscular	5	4	15	5	20
IntraRetinal	5	4	15	5	20
SubCutaneous	5	3	10	5	15
IntraCerebral	0.5	0.4	1.5	0.5	2

* We recommend you to use a siRNA stock solution at 100 μM .

Recommendations

For intracerebral delivery route, we recommend you to prepare a total volume of injection enough for several experiments to avoid reproductibility errors due to the small volumes.

Always keep glucose final concentration in injection mixture at 5 % (w/v).

Use a high concentrated siRNA stock solution (100

μM) to minimize the volume of siRNA.

Do not exceed 0.5 μg of siRNA per μL in the injection mixture.

Use 1 μL of Injectin reagent per μg of siRNA.

Optimizations

Data are given as starting points for a 30 g adult mouse. For intravenous and peritoneal siRNA delivery routes, use 1 mg to 4 mg of siRNA per kg. For intratumoral siRNA delivery route, adapt the volume of injection function of the size of the tumor (use 0.5 $\mu\text{L} / \text{mm}^3$).

Technical support

Do not hesitate to contact our technical scientific team at technical@biocellchallenge.com if you need further information about Injectin *In Vivo* siRNA Delivery Kit.

Product Use Limitation

This product is developed, designed and sold exclusively for research purposes only. The product was not tested for use in diagnostics, nor it is suitable for administration to human. The purchase of this product includes a non-transferable licence to use it for the purchaser's internal research only. All other commercial uses of this product require a separate license from BioCellChallenge SAS.



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