

CARD HyperOva[®] for RAT

Cat. No. KYD-FR-003
KYD-FR-003-X5

Size: 1.2 mL
Size: 5*1.2 mL

Last updated:2025/1/22

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CARD HyperOva[®] for RAT

Background

CARD HyperOva[®] for RAT (Cat No. KYD-FR-003, KYD-FR-003-X5) is a superovulation reagent that induces ovulation at higher efficiency when compared with superovulation with eCG/hCG. This is expected to lead to a significant reduction in the number of female rats required to provide oocytes, as well as a reduction in the number of rats used.

It is expected that this will make a significant contribution to Reduction, one of the 3R Principle on animal experimentation*.

CARD HyperOva[®] for RAT was developed by The Center for Animal Resources and Development (CARD), Kumamoto University, Japan.

* The 3R Principle on animal experimentation: Replacement, Reduction , and Refinement

Storage

Store at -80°C-20°C

Caution

Administer one time per rat.

It may not be used for any purpose other than research purposes, such as treatment of animals. Although it does not contain harmful ingredients, do not drink or apply to the body.

Procedure

The administration volume is different depending on the age of rat.

Day 1
9:00-11:00
Procedure: 1.~3.

1. Remove CARD HyperOva for RAT from a freezer. Place the CARD HyperOva for RAT in an incubator, a water bath, etc. at 37 °C and leave it for 10 minutes to thaw.

2. The thawed reagent must be injected within an hour of thawing. Before sucking up the reagent into the cylinder, invert the tube and mix the contents well in order to suspend the CARD HyperOva for RAT.

Day 2

3. Inject

- **0.2mL/rat (4-5 weeks old rat)**
 - **0.3mL/rat (more than 6 weeks old rat)**
- of CARD HyperOva for RAT into the abdominal cavity.

Day 3
16:030-17:30
Procedure: 4.

4. Inject

- **20IU (4-5 weeks old rat)**
 - **30IU (more than 6 weeks old rat)**
- of hCG* into the abdominal cavity about 56 hours after administering CARD HyperOva for RAT.

*Please prepare hCG separately.

Day 4
9:00-
Procedure: 5.

5. About 16 hours after the hCG injection, remove the swollen area of the oviduct from the rat, remove the cumulus-oocyte-complexes, and transfer to a medium such as CARD Rat IVF medium or CARD mHTF for in vitro fertilization.

Reference

Takeo T, Nakao S, Mikoda N, Yamaga K, Maeda R, Tsuchiyama S, Nakatsukasa E, and Nakagata N, Optimized protocols for sperm cryopreservation and in vitro fertilization in the rat. Lab Anim. 2022, 51:256-274.

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