

孕马血清促性腺激素 (PMSG) \人绒毛膜促性腺激素 (HCG) (小鼠专用)

产品	货号	规格	用途
PMSG	72122	1mL	促进小鼠卵的成熟
HCG	72120	1mL	促进卵泡进一步成熟并诱发排卵

【主要组成成分】

PMSG冻干粉、HCG冻干粉、生理盐水等

【储存条件及有效期】

- 1、保存：避光、密闭、-20度冷冻保存
- 2、有效期：3 个月

【小鼠要求】

3.5-4周龄雌鼠。注意：超排效果受到几种因素的影响，雌鼠年龄，激素剂量和小鼠品系。超排要求详见文末表格。

【使用方法】

- 1、待激素完全解冻后，轻柔地颠倒混匀，用一次性1mL注射器吸取PMSG（或HCG），排空注射器内的空气。
- 2、保定好小鼠，注射器针头刺穿皮肤和肌肉层，采用腹腔注射的方式，注射时避免扎到隔膜或其他内脏器官。
- 3、PMSG注射后46-48小时，注射HCG。(HCG后14小时左右收集输卵管。理论上卵母细胞成熟是在HCG注射后13-16小时。超过16小时采集卵丘卵母细胞复合体，会导致卵母细胞老化，受精能力下降)。

【注意事项】

- 1、激素避免反复冻融，一次操作后，未用完的试剂建议丢弃。
- 2、表1为不同背景小鼠最佳超排周龄及剂量。

表1 不同背景小鼠最佳超排周龄及剂量

背景	年龄	PMSG	HCG	备注
C67BL/6J	3.5-4W	5 IU	5 IU	
C67BL/6N	3.5-4W	5 IU	5 IU	
FVB	3.5-4W	5 IU	5 IU	
ICR	3.5-4W	5 IU	5 IU	
Balb/c	8-10W	5 IU	5 IU	需提前注射GnRH
NCG/NOD	8-10W	10 IU	10 IU	
SD大鼠	4-5W	50 IU	50 IU	

3、注射后如有漏液现象，建议适量补充注射。

4、公司也可向客户提供浓储的PMSG和HCG，可联系: 025-58641560。

Pregnant Mare Serum Gonadotropin (PMSG) and Human chorionic gonadotropin(HCG) (Mouse-specific)

Product	Item No.	specification	Application
PMSG	72122	1mL	Induce follicular development
HCG	72120	1mL	Induce the rupture of the matured follicles

Composition

PMSG Freeze-dried powder, HCG Freeze-dried powder, Saline

Storage conditions and expiration date

1. Storage: Stored away from light, at -20 °C.
2. Expiration date: 3 months

Mouse

Female mice 3.5-4 weeks of age, [Note]: Efficient induction of superovulation in mice depends on several variables:the age and the does of gonadotropins,and the mice strains used (Table 1).

Instructions

1. After the hormone is completely thawed, gently mix well and draw the PMSG (or HCG) with a disposable 1ml syringe . Evacuating the air from the syringe.
2. Pick up the mouse by the scruff of its neck as close t the ears as possible.Pierce the skin and abdominal muscles wit the hypodermic needle, and inject the solution into the i.p cavity,taking care to aviod the diaphragm and other organs.
3. For most strains,a 46-to 48h interval between PMSG and the hCG injections has been found to be optimal for oocyte yield. Ovulation takes place between 10-13h after injection of hCG, Collect oocyte-cumulus complexes by tearing the oviduct ampulla under a stereoscopic after 13-16 hours of HCG. beyond 16 hours

could result in oocyte aging, which could lead decrease the oocyte fertilization ability, therefore the oviducts are collected around 14 hours after HCG injection.

Cautions:

1. Repeated freezing and thawing of hormones will affect the superovulation effect.
2. Hormone dose selection for different strains and week's old of mouse .

Strains	Age	PMSG	HCG	Notes
C67BL/6J	3.5-4W	5 IU	5 IU	
C67BL/6N	3.5-4W	5 IU	5 IU	
FVB	3.5-4W	5 IU	5 IU	
ICR	3.5-4W	5 IU	5 IU	
Balb/c	8-10W	5 IU	5 IU	Pre-injection of GnRH
NCG/NOD	8-10W	10 IU	10 IU	
SD Rat	4-5W	50IU	50IU	

3. At intraperitoneal injection, stay 2 seconds to confirm that there is no leakage when the mouse were injected ,If leakage occurs, an appropriate amount of injection should be added and then put back into the cage.

4. If the customer need hormone concentration storage, you can contact us separately.