



Pregnant Mare Serum Gonadotropin (PMSG)

Product Data Sheet

Cat. No.:	A22721K	A22725K
	1000 IU	5000 IU

Description:

Our bioactive [Pregnant Mare Serum Gonadotropin \(PMSG\)](#), also known as Equine Chorionic Gonadotropin (eCG), is a complex 43-63 kDa glycoprotein purified from the serum of pregnant mares.

Application:

Our PMSG hormone and [Human Chorionic Gonadotropin \(hCG\)](#) are commonly used in superovulation protocols for the production of genetically modified laboratory animals, such as genetically engineered mouse models (GEMM) by pronuclear microinjection (transgenic mouse), targeted mutations through CRISPR-Cas9 methods, and embryonic stem (ES) cell-based gene targeting to produce "knockout" mice. PMSG also has applications with a variety of other species; for example, it may be used in the generation of *Xenopus laevis* and *Xenopus tropicalis* eggs or embryos for use in experimental model systems.

Other Names:

Equine Chorionic Gonadotropin, eCG, Pregnant Mare Serum Gonadotrophin, Pregnant Mare Serum Gn

CAS Registry No.:

CAS No. 9002-70-4

Source:

Serum of pregnant mares

update.: 032023

Ilex Life Sciences LLC

1465 Sand Hill Rd, Suite 2018, Candler, NC 28715

Tel: 828-531-9949; Email: info@ilexlife.com

Web: <https://ilexlife.com/>



Physical Appearance:

Sterile-filtered white lyophilized (freeze-dried) powder

Formulation:

The PMSG was lyophilized with no additives.

Solubility:

It is recommended to reconstitute the lyophilized PMSG in sterile 18M Ω -cm H₂O at a concentration of 1000 IU/ml, which can then be further diluted to other aqueous solutions.

Stability:

Lyophilized PMSG, although stable at room temperature for 3 weeks, should be stored between 2-8°C. Once reconstituted, it is recommended to aliquot and store at -70°C for long term use.

Usage:

This product is intended for **Laboratory Research Use Only**. Not for use in diagnostic or therapeutic procedures. This product may not be used as a pharmaceutical or veterinary drug, agricultural product, or food additive.

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