

Growth Factor Data Sheet

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Murine Prolactin (PRL) is a peptide hormone that is secreted most notably from the pituitary gland where it acts in an endocrine fashion, but also from extra pituitary regions where it acts in an autocrine or paracrine fashion. PRL serves as a ligand for the prolactin receptor, PRLR. It is listed as having over 300 separate functions and is involved in more processes than any other pituitary hormone. PRL is most commonly known for its lactation stimulating effect, but also plays a role in reproductive behavior, homeostasis of electrolytes, growth and development, regulation of metabolism, immune system regulation, angiogenesis, and survival of cancer cells. Homozygous female knock-out mice lacking expression of PRL become infertile, whereas homozygous males were fully fertile.

Catalog Number Product Name	PRL, Murine 3510-10 Recombinant Murine Prolactin (PRL) Lactogenic Hormone Lactotropin Mammotropin Luteotropin
Source	<i>Escherichia coli</i>
MW	Click here to enter text.
Sequence	LPICAGDCQ TSLRELFDRV VILSHYIHTL YTDMFIEFDK QYVQDREFMV KVINDCPTSS LATPEDKEQA LKVPPEVLLN LILSLVQSSS DPLFQLITGV GGIQEAPPEYI LSKAKEIEEQ NKQLLEGVEK IISQAYPEAK GNGIYFVWSQ LPSLQGVDEE SKILSLRNTI RCLRRDSHKV DNFLKVLRCQ IAHQNNC
Accession Number	P06879
Purity	>98% by SDS-PAGE and HPLC analyses
Biological Activity	Fully biologically active when compared to standard. The ED ₅₀ as determined by its ability to induce cAMP accumulation in murine MC3T3E1 cells is less than 50 ng/ml, corresponding to a specific activity of >2.0 × 10 ⁴ IU/mg.
Formulation	Sterile filtered white lyophilized powder. Purified and tested for use in cell culture.
Storage/Handling	This lyophilized preparation is stable at 2-8°C, but should be kept at -20°C for long term storage. The reconstituted sample can be apportioned into working aliquots and stored at -80 °C for up to 6 months. Avoid repeated freeze/thaw cycles.
Reconstitution	The sample should be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in a siliconized tube using PBS that contains a 0.1% BSA to a concentration of 0.1-1.0 mg/mL. Reconstituted solutions are stable for up to one week at 2-8°C. Stock solutions should be aliquoted and stored at -80°C. Further dilutions should be made in appropriate buffered solutions containing BSA or serum.