

Recombinant Mouse Prolactin

Information

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| Gene ID | Mm.1270. |
| Accession # | P06879 |
| Alternate Names | |
| Source | <i>Escherichia coli</i> . |
| M.Wt | Approximately 22.4 kDa, a single non-glycosylated polypeptide chain containing 197 amino acids. |
| AA Sequence | LPICSAGDCQ TSLRELFDRV VILSHYIHTL YTDMFIEFDK QYVQDREFMV KVINDCPTSS LATPEDKEQA LKVPPEVLLN LILSLVQSSS DPLFQLITGV GGIQEAPEYI LSRAKEIEEQ NKQLLEGVEK IISQAYPEAK GNGIYFVWSQ LPSLQGVDEE SKILSLRNTI RCLRRDSHKV DNFLKVLRCQ IAHQNNC |
| Appearance | Sterile Filtered White lyophilized (freeze-dried) powder. |
| Stability & Storage | Use a manual defrost freezer and avoid repeated freeze-thaw cycles. - 12 months from date of receipt, -20 to -70 °C as supplied. - 1 month, 2 to 8 °C under sterile conditions after reconstitution. - 3 months, -20 to -70 °C under sterile conditions after reconstitution. |
| Formulation | Lyophilized from a 0.2 µm filtered concentrated solution in PBS, pH 7.4. |
| Reconstitution | We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in sterile distilled water or aqueous buffer containing 0.1 % BSA to a concentration of 0.1-1.0 mg/mL. Stock solutions should be apportioned into working aliquots and stored at ≤ -20 °C. Further dilutions should be made in appropriate buffered solutions. |
| Biological Activity | Fully biologically active when compared to standard. The ED ₅₀ as determined by a cell proliferation assay using rat Nb2-11 cells is less than 1.0 ng/ml, corresponding to a specific activity of > 1.0 × 10 ⁶ IU/mg. |
| Shipping Condition | Gel pack. |
| Handling | Centrifuge the vial prior to opening. |
| Usage | For Research Use Only! Not to be used in humans. |

Components and Storage

| Components | 10 µg | 100 µg | 500 µg |
|-----------------------------|-------|--------|--------|
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Quality Control

| | |
|-----------|--|
| Purity | > 98 % by SDS-PAGE and HPLC analyses. |
| Endotoxin | Less than 0.1 EU/μg of rMuProlactin as determined by LAL method. |

Description

Prolactin, also named PRL and lactotrope is a peptide hormone, encoded by the PRL gene. The structure of prolactin is similar to that of growth hormone and placental lactogen. There are mainly three different forms of prolactin in regard to size: little prolactin, big prolactin and big big prolactin. Little prolactin is the predominant form. Although often associated with human milk production, prolactin plays a wide range of other roles in both humans and other vertebrates. Recombinant murine prolactin is a 22.4 kDa globular protein containing 197 amino acid residues and shares 77 % ~ 90 % a.a. sequence identity with human and rat prolactin.

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