

# Human Prolactin Recombinant Protein



RPPB0871

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## Product Information    Protein Information

**Product SKU:**

RPPB0871

**Accession:**

P01236

**Host:**

Escherichia Coli.

**Protein description:**

Prolactin Human Recombinant Pegylated produced in E.Coli is a single, non-glycosylated polypeptide chain containing 199 amino acids + an additional Ala at n-terminal. Pegylated Prolactin is mono-pegylated having a molecular mass of ~ 39 kDa, however under non-denaturing conditions it behaves as 220 kDa protein due to its increased hydrodynamic volume. The Pegylated Prolactin protein is purified by proprietary chromatographic techniques.

**Appearance:**

Sterile Filtered White lyophilized (freeze-dried) powder.

**Synonyms:**

Mamotropin, Luteotropic hormone, Luteotropin, PRL.

**Formulation:**

The protein was lyophilized from a concentrated (1mg/ml) solution with 0.02% NaHCO<sub>3</sub>.

**Purity:**

Greater than 95.0% as determined by gel filtration analysis.

**Solubility:**

It is recommended to reconstitute the lyophilized Prolactin in sterile 0.4% NaHCO<sub>3</sub> pH-8.5, not less than 100µg/ml, which can then be further diluted to other aqueous solutions.

**Stability:**

Lyophilized Prolactin although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution Prolactin should be stored at 4°C between 2-7 days and for future use below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

**Biological Activity:**

Pegylated Human Prolactin was tested for its biological functionality in-vitro by inducing proliferation of Nb2 cells or Baf/3 cells that were stably transfected with Human Prolactin receptors, though its activity is lower than human Prolactin. However, it is anticipated that its biological activity in vivo will be higher than human Prolactin due to prolonged persistence in circulation.