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32-1684: rProlactin Recombinant Protein

Alternative Name: Mammotropin, Luterotropic hormone, Lutetropin, PRL.

Description

Source: Escherichia Coli. Prolactin Rat Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 198 amino acids and having a molecular mass of 22.6 kDa. The Prolactin is purified by proprietary chromatographic techniques. Prolactin is a neuroendocrine hormone synthesized primarily by the pituitary gland but also a variety of other cell types including the placenta, brain and uterus. Its primary function is to promote and maintain lactation but has also been shown to have a role in breast cancer development, regulation of reproductive function and immunoregulation.

Product Info

Amount: $50 \mu g$

Purification : Greater than 95.0% as determined by:(a) Analysis by SEC-HPLC.(b) Analysis by SDS-PAGE.

Content:

The protein was lyophilized from a concentrated (1mg/ml) solution with 10mM sodium

Phosphate buffer pH=8 and 50mM Nacl.

Lyophilized Prolactin although stable at room temperature for 3 weeks, should be stored

Storage condition : 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.

Amino Acid: The sequence of the first five N-terminal amino acids was determined and was found to be Met-

Leu-Pro-Val-Cys.

Application Note

It is recommended to reconstitute the lyophilized Prolactin in sterile $18M\tilde{A} \square \hat{A} \odot$ -cm H2O not less than $100\tilde{A} \square \hat{A} \mu g/ml$, which can then be further diluted to other aqueous solutions. The ED50 as determined by the dose-dependant stimulation of the proliferation of rat lymphoma, Nb2-11 was found to be < 0.065 ng/ml corresponding to a specific activity of 15,400,000 Units/mg.

