

Recombinant Ovine Prolactin, 199aa

Cat. No. PRL-590 Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Ovine Prolactin produced in <i>E. Coli</i> is a single, non-glycosylated polypeptide chain containing 199 amino acids and having a molecular mass of 23 kDa. The Prolactin n is purified by proprietary chromatographic techniques.
Species	Ovine
Source	E.coli
Description	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.
Physical Appearance	Sterile Filtered White lyophilized (freeze-dried) powder.
Purity	Greater than 98.0% as determined by: (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE.
Formulation	The protein was lyophilized from a concentrated (1 mg/ml) solution with 0.0045 mM NaHCO ₃ .
Solubility	It is recommended to reconstitute the lyophilized Prolactin in sterile 18 MΩ-cm H ₂ O not less than 100 g/ml, which can then be further diluted to other aqueous solutions.

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Amino Acid Sequence	The sequence of the first five N-terminal amino acids was determined and was found to be Ala-Thr-Pro-Val-Cys-Pro.
Biological Activity	Is fully biologically active as evidenced by inducing proliferation of Nb2 cells.
Protein Content	Protein quantitation was carried out by two independent methods: 1. UV spectroscopy at 280 nm using the absorbency value of 0.85 as the extinction coefficient for a 0.1% (1mg/ml) solution. This value is calculated by the PC GENE computer analysis program of protein sequences (IntelliGenetics). 2. Analysis by RP-HPLC, using a calibrated solution of Prolactin as a Reference Standard.
Storage	Lyophilized Prolactin although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution Prl 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.

GENE INFORMATION

Gene Name	PRL prolactin [<i>Ovis aries</i>]
Synonyms	Prolactin; PRL; prolactin
Gene ID	443317
mRNA Refseq	NM_001009306
Protein Refseq	NP_001009306
UniProt ID	P01240



**Structure of the
hormone prolactin**



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