

Active Recombinant Ovine Prolactin / PRL Protein

Cat. No. PRL-220 **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Prolactin Ovine produced in E.Coli is a single, non-glycosylated polypeptide chain containing 199 amino acids.
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.
Form	Sterile Filtered White lyophilized (freeze-dried) powder.
Bio-activity	Is fully biologically active as evidenced by inducing proliferation of Nb2 cells.
Molecular Mass	23 kDa
N-terminal Sequence Analysis	The sequence of the first five N-terminal amino acids was determined and was found to be Ala-Thr-Pro-Val-Cys-Pro.
Residual Host Cell 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

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computer analysis program of protein sequences (IntelliGenetics).

2. Analysis by RP-HPLC, using a calibrated solution of Prolactin as a Reference Standard.

Purity

Greater than 98.0% as determined by:

(a) Analysis by SEC-HPLC.

(b) Analysis by SDS-PAGE.

Storage

Lyophilized Prolactin although stable at room temperature for 3 weeks, should be stored desiccated below -18 centigrade. Upon reconstitution Prl should be stored at 4 centigrade between 2-7 days and for future use below -18 centigrade.

For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

Concentration

1 mg/mL

Storage Buffer

0.0045 mM NaHCO₃

Reconstitution

It is recommended to reconstitute the lyophilized Prolactin in sterile 18MΩ-cm H₂O not less than 100µg/ml, which can then be further diluted to other aqueous solutions.

GENE INFORMATION

Gene Name

PRL

Official Symbol

PRL prolactin [*Ovis aries* (sheep)]

Synonyms

PRL; prolactin

Gene ID

443317

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mRNA Refseq	NM_001009306
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Protein Refseq	NP_001009306
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