

## Prolactin Active Protein | PRL active protein

Recombinant Ovine Prolactin

|                              |                       |
|------------------------------|-----------------------|
| CATALOG #<br><b>AAA38127</b> | HOST<br><b>E Coli</b> |
|------------------------------|-----------------------|

### PRODUCT SYNONYMS

Prolactin; Recombinant Ovine Prolactin; Prolactin Ovine; Prolactin Ovine Recombinant; Mamotropin; Luteotropic hormone; Luteotropin; PRL; oProlactin; PRL active protein

### PRODUCT SPECIFICATIONS

|                         |                                                                                                                                                                                                                                                                                                                                                                                                |
|-------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                    | E Coli                                                                                                                                                                                                                                                                                                                                                                                         |
| Purity/Purification     | Greater than 98.0% as determined by: (a) Analysis by SEC-HPLC. (b) Analysis by SDS-PAGE.                                                                                                                                                                                                                                                                                                       |
| Form/Format             | The protein was lyophilized from a concentrated (1mg/ml) solution with 0.0045mM NaHCO <sub>3</sub> . Sterile Filtered White lyophilized (freeze-dried) powder.                                                                                                                                                                                                                                 |
| Sequence                | Thesequenc eofthefirs tfiveN-ter minalamino acidswasde terminedan dwasfoundt obeAla-Thr -Pro-Val-C ys-Pro                                                                                                                                                                                                                                                                                      |
| Sequence Length         | 240                                                                                                                                                                                                                                                                                                                                                                                            |
| Solubility              | It is recommended to reconstitute the lyophilized Prolactin in sterile 18M Omega -cm H <sub>2</sub> O not less than 100 ug/ml, which can then be further diluted to other aqueous solutions.                                                                                                                                                                                                   |
| Protein Content         | Protein quantitation was carried out by two independent methods1. 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. |
| Biological Activity     | Is fully biologically active as evidenced by inducing proliferation of Nb2 cells.                                                                                                                                                                                                                                                                                                              |
| Preparation and Storage | Lyophilized Prolactin although stable at room temperature for 3 weeks, should be stored desiccated below -18 degree C. Upon reconstitution Prl should be stored at 4 degree C between 2-7 days and for future use below -18 degree C.For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA).Please prevent freeze-thaw cycles.                                     |

### ADDITIONAL INFORMATION

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|----------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for PRL active protein | <p><b>Description:</b> Prolactin Ovine Recombinant produced in E Coli 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.</p> <p><b>Introduction:</b> 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.</p> |
| Product Categories/Family for PRL active protein   | Cytokines and Growth Factors; Growth Factors; Prolactin                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |

### NCBI AND UNIPROT INFORMATION

|             |          |
|-------------|----------|
| NCBI GI #   | 57164329 |
| NCBI GeneID | 443317   |

|                            |                                |
|----------------------------|--------------------------------|
| NCBI Accession #           | <a href="#">NP_001009306.1</a> |
| NCBI GenBank Nucleotide #  | <a href="#">NM_001009306.1</a> |
| UniProt Accession #        | <a href="#">P01240; Q28587</a> |
| Molecular Weight           | 25,778 Da                      |
| NCBI Official Full Name    | prolactin                      |
| NCBI Official Symbol       | PRL                            |
| NCBI Protein Information   | prolactin                      |
| UniProt Protein Name       | Prolactin                      |
| UniProt Gene Name          | <b>PRL</b>                     |
| UniProt Synonym Gene Names | PRL                            |
| UniProt Entry Name         | PRL_SHEEP                      |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/e-coli-active-protein/prolactin/38127>