

## Recombinant Ovine Prolactin Antagonist

**Cat. No.** PRL-54O    **Lot. No.** (See product label)

### SPECIFICATION

|                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
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| <b>Product Overview</b>    | Recombinant Ovine Prolactin Antagonist produced in <i>E. Coli</i> is a single, non-glycosylated polypeptide chain. Ovine Prolactin Antagonist is purified by proprietary chromatographic techniques.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Species</b>             | Ovine                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Source</b>              | E.coli                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Description</b>         | <p>Prolactin is a lactogenic hormone secreted by the adenohypophysis. Besides its major action on lactation, in some species prolactin exerts effects on reproduction, maternal behavior, fat metabolism, immunomodulation and osmoregulation. Prolactin has been shown also to have cytokine-like activities and to have important immunoregulatory activities. It contributes to the development of lymphoid tissues and the maintenance of physiological immune function and also modulates a variety of T-cell immune responses. Prolactin has been reported to activate cellular proliferation in nonreproductive tissue, such as liver, spleen, and thymus. It induces significant proliferation in aortic smooth muscle cells and also enhances proliferation of these cells induced by PDGF. Prolactin also appears to be directly mitogenic for pancreatic beta cells. Prolactin is also mitogenic for cultured astrocytes.</p> |
| <b>Physical Appearance</b> | Sterile Filtered White lyophilized (freeze-dried) powder.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Purity</b>              | Greater than 98.0% as determined by: (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |

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|--------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Formulation</b> | Ovine Prolactin was lyophilized from a concentrated (1mg/ml) solution with 0.0045 mM NaHCO <sub>3</sub> .                                                                                                                                                                                                                                                                       |
| <b>Solubility</b>  | It is recommended to reconstitute the lyophilized Ovine Prolactin Antagonist in sterile 18 MΩ-cm H <sub>2</sub> O not less than 100 µg/ml, which can then be further diluted to other aqueous solutions.                                                                                                                                                                        |
| <b>Storage</b>     | Lyophilized Ovine Prolactin Antagonist although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution Ovine Prolactin Antagonist 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

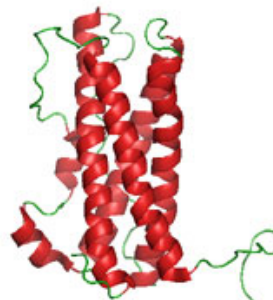
|                       |                                     |
|-----------------------|-------------------------------------|
| <b>Gene Name</b>      | PRL prolactin [ <i>Ovis aries</i> ] |
| <b>Synonyms</b>       | Prolactin; PRL; prolactin           |
| <b>Gene ID</b>        | 443317            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

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**Structure of the  
hormone prolactin**



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