

Recombinant Ovine Prolactin Antagonist

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

SPECIFICATION

Product Overview	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.
Species	Ovine
Source	E.coli
Description	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.
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.

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Formulation	Ovine Prolactin was lyophilized from a concentrated (1mg/ml) solution with 0.0045 mM NaHCO ₃ .
Solubility	It is recommended to reconstitute the lyophilized Ovine Prolactin Antagonist in sterile 18 MΩ-cm H ₂ O not less than 100 µg/ml, which can then be further diluted to other aqueous solutions.
Storage	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

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

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**Structure of the
hormone prolactin**



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