

PRODUCT DATA SHEET

Prolactin Ovine Antagonist, Recombinant

Introduction:	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.
Product Description:	Recombinant Ovine Prolactin Antagonist produced in E. Coli is a single, non-glycosylated polypeptide chain.
Source:	<i>Escherichia Coli</i> .
Physical Appearance:	Sterile Filtered White lyophilized (freeze-dried) powder.
Cat No:	3HCYT-311
Unit Size:	10 µg 50 µg 1 mg
Purity:	Greater than 99.0 % as determined by SDS-PAGE.
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 18MΩ-cm H ₂ O not less than 100 µg/ml, which can then be further diluted to other aqueous solutions.
Stability:	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

This product is for research use only. Not approved for human use.

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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.

Biological Activity:

Ovine Prolactin Antagonist is devoid of agonistic activity and capable of inhibiting biological activity of Ovine Prolactin or other lactogenic hormones as evidenced by proliferation assay of Nb2 or other cells.

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.