9051 Mira Mesa Blvd, #910094
San Diego, CA 92191
Tel: 760-390-3989

Prolactin Ovine

Prolactin Ovine Recombinant
GRF0351

Product Overview

Name	Prolactin Ovine
Description	
Prolactin Ovine Recombinant	
Accession (Primary)	P01240
Synonyms	
Mammotropin, Luteotropic hormone, Luteotropin, PRL.	
Introduction	
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.	
Source	
Escherichia Coli.	
Physical Appearance	
Sterile Filtered White lyophilized (freeze-dried) powder.	
Formulation	
The protein was lyophilized from a concentrated (1mg/ml) solution with 0.02-0.03% NaHCO 3 .	
Stability	
Lyophilized Prolactin although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution Prl 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.	
Purity	
Greater than 99.0% as determined by: (a) Gel filtration analysis. (b) Analysis by SDS-PAGE.	
Amino acid sequence	
The sequence of the first six N-terminal amino acids was determined and was found to be Ala-Thr-Pro-Val-Cys-Pro.	
Biological Activity	
Is fully biologically active as evidenced by inducing proliferation of Nb2 cells.	
Solubility	
It is recommended to reconstitute the lyophilized Prolactin in sterile 18MΩ-cm H 2 O or 0.4% NaHCO 3 adjusted to pH	

9051 Mira Mesa Blvd, #910094
San Diego, CA 92191
Tel: 760-390-3989

8-9, not less than 100 µg/ml, which can then be further diluted to other aqueous solutions.

References

1. Title :Prolactin Treatment Improves Engraftment and Function of Transplanted Pancreatic Islets. Publication :Published online before print December 18, 2008, doi: 10.1210/en.2008-1318 Endocrinology April 1, 2009 vol. 150 no. 4 1646-1653 . Link : Prolactin prospec publication 2. Title :ISLET ENDOTHELIAL CELLS AND PANCREATIC ?-CELL PROLIFERATION: STUDIES IN VITRO AND DURING PREGNANCY IN ADULT RATS. Publication :Endocrinology. First published January 26, 2006 as doi:10.1210/en.2005-0997. Link : Prolactin Ovine prospec publication 3. Title :Prolactin Treatment Improves Engraftment and Function of Transplanted Pancreatic Islets. Publication :Endocrinology. First published ahead of print December 18, 2008 as doi:10.1210/en.2008-1318. Link : Prolactin Protein prospec publication 4. Title: Islet Endothelial Cells and Pancreatic -Cell Proliferation: Studies in Vitro and during Pregnancy in Adult Rats. Publication: Published online before print January26, 2006, doi: 10.1210/en.2005-0997 Endocrinology May 1 , 2006 vol. 147no. 52315-2324. Link: http://endo.endojournals.org/content/147/5/2315.full.pdf+htm l

Protein content

Protein quantitation was carried out by UV spectroscopy at 280 nm using the absorbency value of 0.93 as the extinction coefficient for a 0.1% (1mg/ml) solution. This value is calculated by the PC DNAman computer analysis program of protein sequences.

Precautions

Prolactin Ovine is for research use only and not for use in diagnostic or therapeutic procedures.

Target Information: (P01240)