9051 Mira Mesa Blvd, #910094
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Prolactin Rabbit

Prolactin Rabbit Recombinant
GRF0355

Product Overview

Name	Prolactin Rabbit
Description	
Prolactin Rabbit Recombinant	
Accession (Primary)	Q28632
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 0.0045mM NaHCO3.	
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 98.0% as determined by: (a) Analysis by SEC-HPLC. (b) Analysis by SDS-PAGE.	
Amino acid sequence	
The sequence of the first five N-terminal amino acids was determined and was found to be Ala-Leu-Pro-Ile-Cys.	
Biological Activity	
The ED50 as determined by the dose-dependant stimulation of the proliferation of rat lymphoma, Nb2-11 was found to be < 0.065ng/ml.	
Solubility	

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It is recommended to reconstitute the lyophilized Prolactin in sterile 18MΩ-cm H2O not less than 100 µg/ml, which can then be further diluted to other aqueous solutions.

Protein content

Protein quantitation was carried out by two independent methods 1. UV spectroscopy at 280 nm using the absorbency value of 0.87 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 Prolactinl as a Reference Standard.

Precautions

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

Target Information: (Q28632)