9051 Mira Mesa Blvd, #910094
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Prolactin Rat

Prolactin Rat Recombinant
GRF0356

Product Overview

Name	Prolactin Rat
Description	
Prolactin Rat Recombinant	
Accession (Primary)	P01237
Synonyms	
Mammotropin, Luterotropic hormone, Lutetropin, 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 10mM sodium Phosphate buffer pH=8 and 50mM Nacl.	
Stability	
Lyophilized Prolactin although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution Prolactin 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 95.0% 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 Met-Leu-Pro-Val-Cys.	
Biological Activity	
The ED50 as determined by the dose-dependant stimulation of the proliferation of rat lymphoma, Nb2-11 was found to be < 0.065 ng/ml corresponding to a specific activity of 15,400,000 Units/mg.	

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Solubility

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.

Precautions

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

Target Information: (P01237)