
Product Data Sheet

Product Name: Prolactin Rat
Cat. No.: GP20852
Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped at Room temp.
Synonyms	Mammotropin; Luterotropic hormone; Lutetropin; PRL.		
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.		
Solubility	It is recommended to reconstitute the lyophilized Prolactin in sterile 18MΩ-cm H ₂ O not less than 100μg/ml, which can then be further diluted to other aqueous solutions.		
Formulation	The protein was lyophilized from a concentrated (1mg/ml) solution with 10mM sodium Phosphate buffer pH=8 and 50mM NaCl.		

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.

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.

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.

Caution: Product has not been fully validated for medical applications. For research use only.

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Background

Prolactin Rat Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 198 amino acids and having a molecular mass of 22.6 kDa. The Prolactin is purified by proprietary chromatographic techniques.

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