
Product Data Sheet

Product Name: Prolactin Chicken

Cat. No.: GP20855

Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped at Room temp.
Synonyms	Mammotropin; Luteotropic hormone; Luteotropin; PRL.		
Amino Acid Sequence	The a.a. sequence of the first 6 N-terminal a.a was found to be Ala-Leu-Pro-Ile-Cys-Pro.		
Solubility	It is recommended to reconstitute the lyophilized Prolactin in sterile 0.4% NaHCO ₃ pH-8.5, 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 0.02% NaHCO ₃ .		

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. Prolactin is secreted when eating, nursing, mating, estrogen treatment and during ovulation. Prolactin's primary role is to promote and maintain lactation but also plays a role in breast cancer development, regulation of reproductive function and immunoregulation.

Biological Activity

Chicken Prolactin was tested for its biological functionality in-vitro by inducing proliferation of Nb2 cells or Baf/3 cells that were stably transfected with Chicken Prolactin receptors.

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

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Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA

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a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

Background

Prolactin Chicken Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 199 amino acids + an additional Ala at n-terminal and having a molecular mass of ~ 23 kDa. The Chicken Prolactin protein is purified by proprietary chromatographic techniques.

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