
Product Data Sheet

Product Name: Prolactin Ovine
Cat. No.: GP20853
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 sequence of the first five N-terminal amino acids was determined and was found to be Ala-Thr-Pro-Val-Cys-Pro.		
Solubility	It is recommended to reconstitute the lyophilized Prolactin in sterile 18MΩ-cm H ₂ O or 0.4% NaHCO ₃ adjusted to pH 8-9, 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 0.02-0.03% 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. 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

Is fully biologically active as evidenced by inducing proliferation of Nb2 cells.

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.

Background

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

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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Prolactin Ovine Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 199 amino acids and having a molecular mass of 23 kDa. The Prolactin is purified by proprietary chromatographic techniques.

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