
Product Data Sheet

Product Name: Prolactin Human, Antagonist

Cat. No.: GP20849

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 1st 6 N-terminal a.a. was found to be Ala-Arg-Ser-Gln-Val-Thr.		
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

Human Prolactin Antagonist was tested for its biological functionality in-vitro by inducing proliferation of Nb2 cells or Baf/3 cells that were stably transfected with Human Prolactin receptors. Prolactin Antagonist also interacts at 1:1 molar ratio with human prolactin receptor extracellular domain as documented by SEC and SPR (Biacore analysis).

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

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

Product Data Sheet

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

Prolactin Human Recombinant Antagonist des 1-9, G129R produced in E.Coli is a single, non-glycosylated polypeptide chain containing 190 amino acids + an additional Ala at n-terminal and having a molecular mass of ~ 22 kDa. The Human Prolactin Antagonist is purified by proprietary chromatographic techniques.

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