

Prolactin Human E. coli

Product Data Sheet

Type: Recombinant	Cat. No.:	
Source: E. coli	RP1762670010	(10 ug)
Species: Human	RP1762670050	(50 ug)
	RP1762671000	(1 mg)

Description

Prolactin Human Recombinant produced in E.coli is a single, non-glycosylated polypeptide chain containing 200 amino acids and having a molecular mass of 23007 Dalton. The Prolactin is purified by proprietary chromatographic techniques.

Introduction to the Molecule

Prolactin (about 24 kDa, 199 amino acids) is a peptide hormone primarily associated with lactation. It is synthesised and secreted by lactotrope cells in the adenohypophysis. It is also produced in other tissues including the breast and the decidua. Prolactin stimulates the mammary glands to produce milk (lactation).

Amino Acid Sequence

The sequence of the first five N-terminal amino acids was determined and was found to be Met-Leu-Pro-Ile-Cys

Source

E. coli

Purity

Greater than 95.0% as determined by: (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE.

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.

Formulation

The protein was lyophilized from a concentrated (1 mg/ml) solution with 10 mM sodium Phosphate buffer pH=8 and 50 mM NaCl.

Shipping

At ambient temperature. Upon receipt, store the product at the temperature recommended below.

Storage, Stability/Shelf Life

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.**

Physical Appearance

Sterile filtered White lyophilized (freeze-dried) powder.

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