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Recombinant Human Prolactin

Catalog No.	CRH326A	**Quantity:**	10 µg
	CRH326B		100 µg
	CRH326C		1 mg

Alternate Names: PRL, LTH, Mammotropin, Luteotropic hormone, Luteotropin

Description: Prolactin is a hormone that is produced and secreted by the pituitary gland. Prolactin acts in an endocrine, paracrine, and autocrine manner. The prolactin receptor (PRLR) is expressed on many cell types, including cells of the reproductive organs, central nervous system, and breast cancer. Prolactin signal transduction occurs via JAK kinase signaling pathways. The primary function of prolactin is to regulate lactation, but prolactin also plays functional roles in the immune system and during cell growth, apoptosis, and differentiation.

Protein Accession No: P01236

Source: *E. coli*

Molecular Weight: Monomer, 23 kDa (200 aa)

Formulation: Lyophilized from a sterile-filtered solution containing 10 mM Sodium Phosphate, pH 7.5

Purity: ≥95% by reducing and non-reducing SDS-PAGE

Endotoxin Level: ≤1 EU/µg by kinetic LAL analysis

Biological Activity: The activity is determined by induced proliferation of NB2-11 cells, with typical ED50 < 0.1 ng/mL

Specific Activity: ≥ 1.0×10^6 U/mg

Amino Acid Sequence: MLPICPGGAA RCQVTLRDLF DRAVVLSHYI HNLSSEMFSE FDKRYTHGRG FITKAINSCH TSSLATPEDK EQAQQMNQKD FLSLIVSILR SWNEPLYHLV TEVRGMQEAP EAILSKAVEI EEQTKRLLEG MELIVSQVHP ETKENEIYPV WSGLPSLQMA DEESRLSAYY NLLHCLRRDS HKIDNYLKLL KCRIIHNNNC

Reconstitution: **Centrifuge vial prior to opening.** Add sterile distilled water to a concentration of 0.1 mg/mL and gently pipetting the solution up and down the sides of the vial. **DO NOT VORTEX.** Allow several minutes for reconstitution. A small amount of precipitate may be seen.

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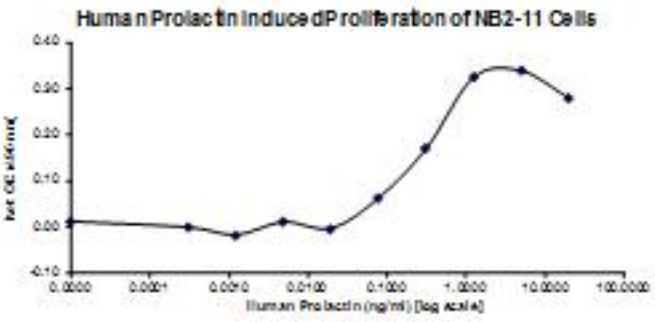
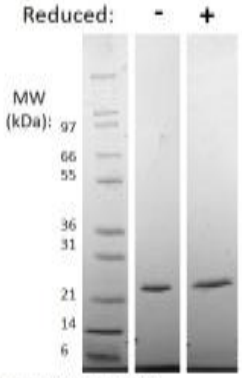
Storage & Stability: Upon receipt, store desiccated at -20 °C for up to 1 year. Upon reconstitution, the preparation is stable for up to one month at 2-8 °C. For long term storage reconstitute in working aliquots containing 0.1% BSA and store at -80 °C. **Avoid repeated freeze-thaw cycles.**





Human Prolactin Gel
Figure: 1 ug in each lane (-) non-reducing conditions and (+) reducing conditions in a 4-20% Tris-Glycine gel, stained with Coomassie Blue. Human Prolactin is predicted have a MW of 23.0 kDa.

NOT FOR HUMAN USE. FOR RESEARCH ONLY. NOT FOR DIAGNOSTIC OR THERAPEUTIC USE.

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