

PRL

Native Human Prolactin, High Purity

Catalog No.	CS079A	Quantity:	100 µg
	CS079B		1.0 mg

Alternate Names: PRL, luteotropic hormone, luteotropin

Description: Prolactin is secreted from the pituitary gland in response to eating, mating, estrogen treatment, ovulation and nursing. Prolactin is secreted in pulses in between these events. In mammals, prolactin is associated with milk production; in fish it is thought to be related to the control of water and salt balance. Prolactin also acts in a cytokine-like manner and as an important regulator of the immune system. It has important cell cycle-related functions as a growth-, differentiating- and anti-apoptotic factor. As a growth factor, binding to cytokine-like receptors, it influences hematopoiesis, angiogenesis and is involved in the regulation of blood clotting through several pathways. Prolactin plays an essential role in metabolism, regulation of the immune system and pancreatic development.

UniProt ID: P01236

Activity: ≥ 30 IU/mg by ELISA

Source: Human Pituitary Glands

Molecular Weight: Approximately 23 kDa

Formulation: Lyophilized from 50mM Ammonium Bicarbonate

Purity: ≥98% by SDS-PAGE

Contaminants:
GH: 0.000014%
FSH: 0.000012%
TSH: 0.000068%
LH: 0.000015%

Reconstitution: **Pituitary hormones are extremely labile in solution. Centrifuge vial to consolidate the solids. Reconstitute directly into the vial and immediately prior to use with a slightly alkaline pH buffer such as 0.01 M sodium bicarbonate. Human prolactin is not readily soluble in physiologic saline. Include a carrier protein such as 1% BSA. If your application precludes the use of a carrier protein, reconstitute product at 5 - 10 mg/ml. Avoid extreme high and low pH.**

Storage & Stability: Store as supplied for up to 1 year at -20°C to -80°C. It is recommended to use the product immediately following reconstitution. If storage is necessary following reconstitution, prepare single-use aliquots and immediately store at -80°C for up to 3 months. **Avoid repeated freeze/thaw cycles.**

Infectious Disease Statement: Negative or non-reactive at the donor level for anti-HIV 1 and 2, anti-HCV, HBsAg, HCV NAT, HIV-1 NAT and syphilis by FDA approved methods.

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



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