

## 32-12280: Human Prolactin

**Gene :** PRL  
**Gene ID :** 5617  
**Uniprot ID :** P01236  
**Alternative Name :** Prolactin

### Description

**Source:** Genetically modified E.coli.

**Predicted MW:** Monomer, 23 kDa (200 aa)

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.

### Product Info

**Amount :** 50 µg / 100 µg  
**Purification :** Reducing and Non-Reducing SDS PAGE at  $\geq 95\%$   
**Content :** Lyophilized from a sterile (0.2 micron) filtered aqueous solution containing 10 mM sodium phosphate, pH 7.5  
Sterile water at 0.1 mg/mL  
**Storage condition :** Store at  $-20^{\circ}\text{C}$   
**Amino Acid :** MLPICPGGAA RCQVTLRDLF DRAVVLSHYI HNLSEMSE FDKRYTHGRG FITKAINSCH TSSLATPEDK  
EQAQMNQKD FLSLIVSILR SWNEPLYHLV TEVRGMQEAP EAILSKAVEI EEQTKRLLG MELIVSQVHP  
ETKENEIYPV WSGPLSLQMA DEESRLSAYY NLLHCLRRDS HKIDNYLKL KCRIIHNNNC

### Application Note

**Endotoxin:** Less than  $0.1 \text{ ng}/\mu\text{g}$  (1 IEU/ $\mu\text{g}$ ) as determined by LAL test.

Biological Activity was determined by NB2-11 cell proliferation at  $\leq 1 \text{ ng/mL}$ ;  $\geq 1.0 \times 10^6 \text{ units/mg}$  (typical ED50 is  $< 0.1 \text{ ng/mL}$ ). Centrifuge vial before opening, Suspend the product by gently pipetting the above recommended solution down the sides of the vial. DO NOT VORTEX. Allow several minutes for complete reconstitution. For prolonged storage, dilute to working aliquots in a 0.1% BSA solution, store at  $-80^{\circ}\text{C}$  and avoid repeat freeze thaws. Upon reconstitution, a small amount of visible precipitate can be expected. A 10% overfill has been added to the total material vial to compensate for this loss.



