



# Recombinant Human Prolactin

20150227BB



**FOR RESEARCH ONLY! NOT FOR HUMAN USE!**

<b>Cat.-no.:</b>	<b>100-273S</b>
Size:	10 µg
Lot. No.:	According to product label

## Scientific Background

<b>Gene-ID (NCBI):</b>	5617
<b>Synonyms:</b>	PRL

Prolactin, also known as mammothrophin, luterotropic hormone, and lutetropin, is a neuroendocrine hormone secreted by the pituitary gland. Its primary function is to promote and maintain lactation during pregnancy and suckling. In addition, Prolactin plays an immune-regulatory role by stimulating the activities of ornithine decarboxylase and protein kinase C, which are important for the proliferation, differentiation, and function of lymphocytes. Recombinant human Prolactin is a 23 kDa globular protein containing 200 amino acid residues.

## Sequence

```
MLPICPGGAA RCQVTLRDLF DRAVVLSHYI HNLSSSEMFSE  
FDKRYTHGRG FITKAINSCH TSSLATPEDK EQAQQMNQKD  
FLSLIVSILR SWNEPLYHLV TEVRGMQEAP EAILSKAWEI  
EEQTKRLLLEG MELIVSQVHP ETKENEIYPV WSGLPQLQMA  
DEESRLSAYY NLLHCLRRDS HKIDNYLKLK KCRIIHNNNC
```

## Database References

<b>Protein RefSeq:</b>	NP_000939.1
<b>Uniprot ID:</b>	P01236
<b>mRNA RefSeq:</b>	NM_000948

## Product Specifications

<b>Expressed in</b>	E. coli
<b>Purity</b>	> 98% by SDS-PAGE & HPLC analyses
<b>Endotoxin level</b>	< 0.1 ng /µg of protein (<1EU/µg).
<b>Formulation</b>	lyophilized
<b>Length (aa):</b>	200
<b>MW:</b>	23 kDa

**Biological Activity:** Determined by its ability to induce the proliferation of rat Nb2-11 cells in the concentration range of 0.1-1.0 ng/ml.



**AVOID REPEATED FREEZE AND THAW CYCLES!**