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# Recombinant human Prolactin protein

Catalog Number: PRO0501

## **PRODUCT INFORMATION**

### **Expression system**

E.coli

#### **Domain**

29-227aa

#### UniProt No.

P01236

#### **NCBI Accession No.**

NP 000939.1

## **Alternative Names**

PRL, Prolactin, Lactogenic hormone, Luteotropic hormone, Mammotropin, OTTHuMP00000017727, Prolactin precursor.

## **PRODUCT SPECIFICATION**

## **Molecular Weight**

23 kDa (200aa) confirmed by MALDI-TOF

#### Concentration

1mg/ml (determined by Bradford assay)

#### **Formulation**

Liquid in. Phosphate-Buffered Saline (pH 7.4)

#### **Purity**

> 95% by SDS-PAGE

#### **Endotoxin level**

< 1 EU per 1ug of protein (determined by LAL method)

## **Biological Activity**

Measured in a cell proliferation assay using Nb2-11 Rat lymphoma cells. The ED50 range ≤ 0.5ng/ml.

#### Tag

Non-Tagged

## **Application**

SDS-PAGE, Bioactivity

#### **Storage Condition**

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

## **BACKGROUND**



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## Recombinant human Prolactin protein

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## **Description**

Prolactin is a hormone synthesised and secreted by lactotrope cells in the adenohypophysis (anterior pituitary gland). Prolactin has many effects, the most significant of which is to stimulate the mammary glands to produce milk (lactation). Increased serum prolactin during pregnancy causes enlargement of the mammary glands of the breasts and increases the production of milk. Recently, prolactin has demonstrated broader roles in breast cancer development, regulation of reproductive function, and immunoregulation. Prolactin was expressed in E. coli and purifed by conventional chromatography, after refolding of the isolated inclusion bodies in a renaturation buffer.

## **Amino acid Sequence**

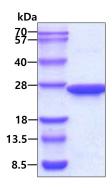
MLPICPGGAA RCQVTLRDLF DRAVVLSHYI HNLSSEMFSE FDKRYTHGRG FITKAINSCH TSSLATPEDK EQAQQMNQKD FLSLIVSILR SWNEPLYHLV TEVRGMQEAP EAILSKAVEI EEQTKRLLEG MELIVSQVHP ETKENEIYPV WSGLPSLQMA DEESRLSAYY NLLHCLRRDS HKIDNYLKLL KCRIIHNNNC

## **General References**

Ben-jonathan N., et al. (1996) Endocr Rev. 17(6):639-69. Cooke NE., et al. (1981) J. Biol. Chem. 256, 4007-4016. Goffin V., et al. (1999) Mol Cell Endocrinol. 151, 79-87.

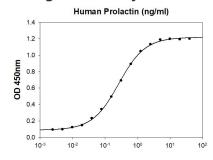
### **DATA**

#### **SDS-PAGE**



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

#### **Biological Activity**



Human Prolactin in a cell proliferation assay using Nb2-11 Rat lymphoma cells. The ED50 range  $\leq 0.5$ ng/ml.

