

# Recombinant Human Prolactin/PRL Protein

Catalog No.: RP01723 Recombinant

### **Sequence Information**

Species Gene ID Swiss Prot Human 5617 P01236

### **Tags**

C-6His

#### **Synonyms**

GHA1;PRL;PRL;Prolactin;Gha1;Prl1a1;AV2 90867:PRL

### **Product Information**

SourcePurificationHEK293 cells≥ 95 % as

determined by SDS-

PAGE.

Calculated MW Observed MW

23.74 kDa 25-35 kDa

#### **Endotoxin**

< 1 EU/µg of the protein by LAL method.

### **Formulation**

Lyophilized from a 0.22 µm filtered solution of PBS, pH 7.4.

### Reconstitution

Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stablizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

#### **Contact**

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### **Background**

Prolactin (PRL) is a hormone with multiple actions in the central nervous system (CNS) spanning from physiology to pathology. PRL exerts different actions through its receptors that can be found in both neurons and glial cells (astrocytes, microglia and oligodendrocytes) of the brain. It is generally believed that in vertebrates, prolactin (PRL) is predominantly synthesized and released by pituitary lactotrophs and plays important roles in many physiological processes via activation of PRL receptor (PRLR), including water and electrolyte balance, reproduction, growth and development, metabolism, immuno-modulation, and behavior.

#### **Basic Information**

#### Description

Recombinant Human Prolactin/PRL Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Leu29-Cys227) of human Prolactin/PRL (Accession  $\#NP_000939.1$ ) fused with and a  $6\times$ His tag at the C-terminus.

#### **Bio-Activity**

Recombinant Human Prolactin/PRL Protein promote the proliferation using Nb2-11 cells. The ED50 for this effect is 0.08-0.30 ng/mL, corresponding to a specific activity of  $3.33 \times 106 \sim 1.25 \times 107$  units/mg.

#### Shipping

The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

### Storage

Store at -20°C. Store the lyophilized protein at -20°C to -80 °C up to 1 year from the date of receipt.

After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.

Avoid repeated freeze/thaw cycles.

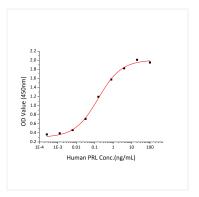
### **Operational Notes**

For your safety and health, please wear a lab coat and disposable gloves for handling.

## **Validation Data**



Recombinant Human Prolactin/PRL Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.



Recombinant Human Prolactin/PRL Protein promote the proliferation using Nb2-11 cells. The ED $_{50}$  for this effect is 0.08-0.30 ng/mL, corresponding to a specific activity of  $3.33\times10^6\sim1.25\times10^7$  units/mg.