

RP01723

Leader in Biomolecular Solutions for Life Science



Recombinant Human Prolactin/PRL Protein

Catalog No.: RP01723

Recombinant

Sequence Information

Species	Gene ID	Swiss Prot
HEK293 cells	5617	P01236

Tags

C-6His

Synonyms

GHA1;PRL;PRL;Prolactin;Gha1;Pr1a1;A
V290867;PRL

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.

Product Information

Source

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 stabilizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

Purification

≥ 95 % as determined by SDS-PAGE.

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

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 a 6×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 $3.33 \times 10^6 \sim 1.25 \times 10^7$ units/mg.

Shipping

Lyophilized proteins are shipped at ambient temperature. Liquid proteins are shipped at frozen temperature with dry ice. Upon receipt, store it immediately at the temperature recommended below.

Operational Notes

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

Storage

Store at -20°C
Avoid repeated freeze/thaw cycles.

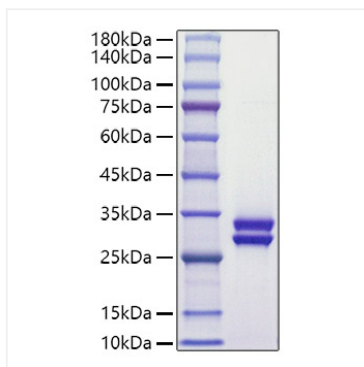
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Contact

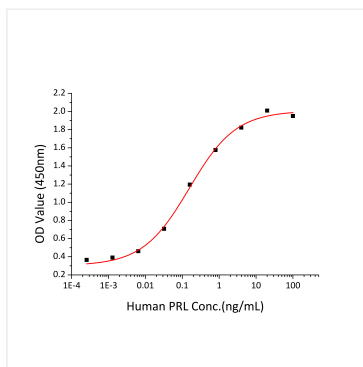


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Validation Data



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



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