Recombinant Human Prolactin/PRL Protein

Catalog No.: RP01723

Sequence Information

Species
Human

Gene ID
5617

Swiss Prot
P01236

Tags
C-6His

Synonyms
GHA1;PRL;PRL,Prolactin,Gha1, Prl1a1,AV290867,PRL

Product Information

Source
HEK293 cells

Purification
≥ 95 % as determined by SDS-PAGE.

Calculated MW
23.74 kDa

Observed MW
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.

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×His tag at the C-terminus.

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 3.33×106~1.25×107 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.

Storage
Store at -20℃

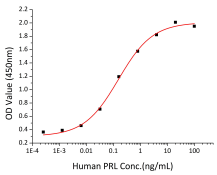
Operational Notes
For your safety and health, please wear a lab coat and disposable gloves for handling.

Contact

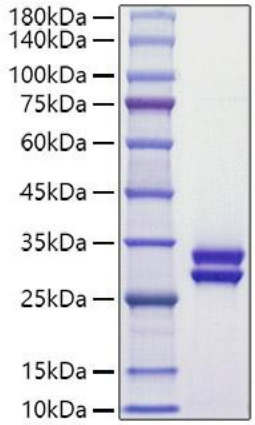
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Validation Data



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 3.33×10^{6}~1.25×10^{7} units/mg.



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