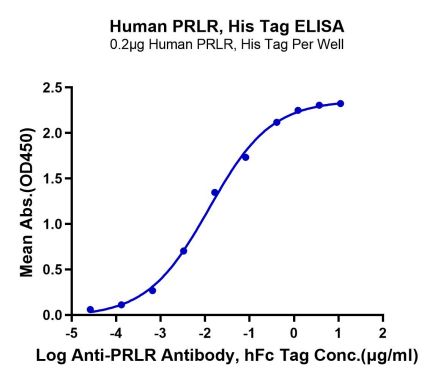
Bioactive HuPro®

PRLR (Human) Recombinant Protein

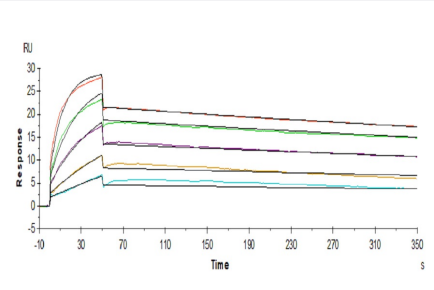
Catalog # P9918 Size 100 ug

Applications



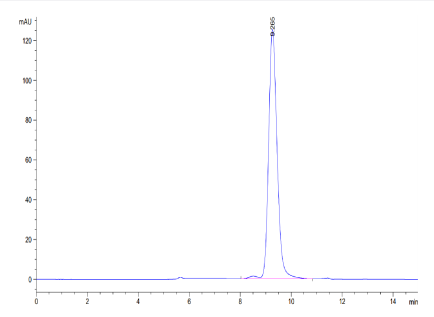
Enzyme-linked Immunoabsorbent Assay

Immobilized Human PRLR, His Tag at 2 ug/mL (100 uL/Well) on the plate. Dose response curve for Anti-PRLR Antibody, hFc Tag with the EC50 of 12.3 ng/mL determined by ELISA (QC Test).



Surface Plasmon Resonance

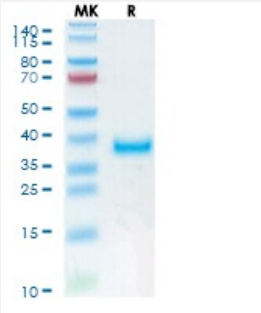
Human PRLR, His Tag captured on CM5 Chip via anti-His antibody can bind Anti-PRLR Antibody, hFc Tag with an affinity constant of 0.96 nM as determined in SPR assay (Biacore T200).



SEC-HPLC

The purity of Human PRLR is greater than 95% as determined by SEC-HPLC.

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Tris-Bis PAGE

Human PRLR on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.

Specification

Product Description	Human PRLR (P16471-1, Gln25-Asp234) partial recombinant protein with His tag at C-Terminus expressed in HEK293 cells.
Sequence	Gln25-Asp234
Host	Human
Theoretical MW (kDa)	25.5
Form	Lyophilized
Preparation Method	Mammalian cell (HEK293) expression system
Purity	> 95% as determined by Tris-Bis PAGE; > 95% as determined by HPLC
Endotoxin Level	< 1 EU per 1 ug of protein (determined by LAL method)
Activity	The EC_{50} was 12.3 ng/mL, messured by ELISA at 2 ug/mL. The affinity constant of 0.96 nM as determined in SPR assay (Biacore T200).
Quality Control Testing	SEC-HPLC and Tris-Bis PAGE SEC-HPLC The purity of Human PRLR is greater than 95% as determined by SEC-HPLC. Tris-Bis PAGE Human PRLR on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.
Recommend Usage	Biological Activity ELISA SDS-PAGE SPR The optimal working dilution should be determined by the end user.
Storage Buffer	Lyophilized from sterile distilled Water is > 100 ug/mL
Storage Instruction	Store at 2°C to 8°C for 1 week. For long term storage, aliquot and store at -20°C to -80°C. Aliquot to avoid repeated freezing and thawing.
Note	Result of bioactivity analysis

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Applications

- Functional Study
- Enzyme-linked Immunoabsorbent Assay

  Immobilized Human PRLR, His Tag at 2 ug/mL (100 uL/Well) on the plate. Dose response curve for Anti-PRLR Antibody, hFc Tag with the EC50 of 12.3 ng/mL determined by ELISA (QC Test).
- SDS-PAGE
- Surface Plasmon Resonance

  Human PRLR, His Tag captured on CM5 Chip via anti-His antibody can bind Anti-PRLR Antibody, hFc Tag with an affinity constant of 0.96 nM as determined in SPR assay (Biacore T200).

Gene Info — PRLR

Entrez GeneID	5618
Protein Accession#	P16471-1
Gene Name	PRLR
Gene Alias	hPRLrI
Gene Description	prolactin receptor
Omim ID	176761
Gene Ontology	Hyperlink
Other Designations	OTTHUMP00000115998|delta 4-SF1b truncated prolactin receptor|delta 4-delta 7/11 truncated prolactin receptor|hPRL receptor|prolactin receptor delta 7/11|secreted prolactin binding protein

Pathway

- Cytokine-cytokine receptor interaction
- Jak-STAT signaling pathway
- Neuroactive ligand-receptor interaction

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Disease

- Abortion
- Asperger Syndrome
- Autistic Disorder
- Autoimmune Diseases
- Breast cancer
- Breast Neoplasms
- Fibroadenoma
- Genetic Predisposition to Disease
- Infertility
- Lupus Erythematosus
- Lymphoma
- Mental Disorders
- Multiple Sclerosis
- Obesity
- Ovarian Failure
- Polycystic Ovary Syndrome
- Primary Ovarian Insufficiency
- Prostate cancer
- Prostatic Neoplasms
- Puberty
- Thrombophilia
- Tobacco Use Disorder

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