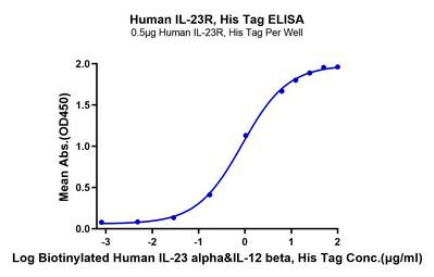
Bioactive HuPro®

# IL23R (Human) Recombinant Protein

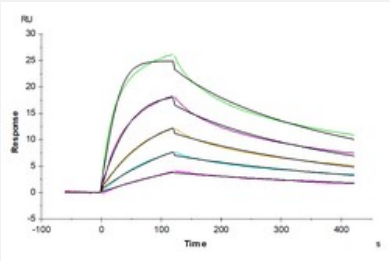
Catalog # P9746 Size 100 ug

## Applications



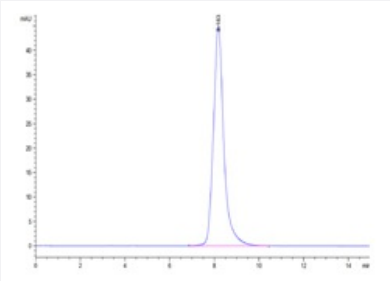

### Enzyme-linked Immunoabsorbent Assay

Immobilized Human IL-23R, His Tag at 5 ug/mL (100 uL/mL/well) on the plate. Dose response curve for Biotinylated Human IL-23 alpha & IL-12 beta, His Tag with the EC50 of 0.87 ug/mL determined by ELISA




### Surface Plasmon Resonance

Human IL-23R, His Tag immobilized on CM5 Chip can bind Human IL-23 alpha & IL-12 beta, His Tag with an affinity constant of 5.72 nM as determined in SPR assay (Biacore T200).



### SEC-HPLC

The purity of Human IL-23R is greater than 95% as determined by SEC-HPLC.

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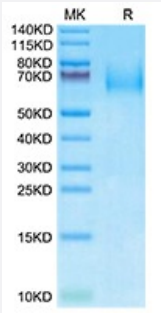


## Tris-Bis PAGE

Human IL-23R on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.

## Specification

| | |
|---|---|
| **Product Description** | Human IL23R (Q5VWK5-1, Gly24-Gly355) partial recombinant protein with His tag at C-terminus expressed in HEK293 cells. |
| **Sequence** | Gly24-Gly355 |
| **Host** | Human |
| **Theoretical MW (kDa)** | 39.15 |
| **Form** | Lyophilized |
| **Preparation Method** | Mammalian cell (HEK293) expression system |
| **Quality Control Testing** | SEC-HPLC and Tris-Bis PAGE<br>SEC-HPLC<br>The purity of Human IL-23R is greater than 95% as determined by SEC-HPLC.<br>Tris-Bis PAGE<br>Human IL-23R on Tris-Bis PAGE under reduced condition. The purity is greater than 95%. |
| **Recommend Usage** | Biological Activity<br>ELISA<br>SPR<br>SDS-PAGE<br>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 |

## Applications

- Functional Study

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- Enzyme-linked Immunoabsorbent Assay

  Immobilized Human IL-23R, His Tag at 5 ug/mL (100 uL/mL/well) on the plate. Dose response curve for Biotinylated Human IL-23 alpha & IL-12 beta, His Tag with the EC50 of 0.87 ug/mL determined by ELISA

- SDS-PAGE

- Surface Plasmon Resonance

  Human IL-23R, His Tag immobilized on CM5 Chip can bind Human IL-23 alpha & IL-12 beta, His Tag with an affinity constant of 5.72 nM as determined in SPR assay (Biacore T200).

## Gene Info — IL23R

| | |
|---|---|
| **Entrez GeneID** | 149233 |
| **Protein Accession#** | Q5VWK5-1 |
| **Gene Name** | IL23R |
| **Gene Alias** | - |
| **Gene Description** | interleukin 23 receptor |
| **Omim ID** | 266600 607562 |
| **Gene Ontology** | Hyperlink |
| **Gene Summary** | The protein encoded by this gene is a subunit of the receptor for IL23A/IL23. This protein pairs wit h the receptor molecule IL12RB1/IL12Rbeta1, and both are required for IL23A signaling. This prot ein associates constitutively with Janus kinase 2 (JAK2), and also binds to transcription activator STAT3 in a ligand-dependent manner. [provided by RefSeq |
| **Other Designations** | OTTHUMP00000010660 |

## Pathway

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

## Disease

- Acute Disease

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- Anemia
- Arthritis
- Asthma
- Atherosclerosis
- Autoimmune Diseases
- Behcet Syndrome
- Bipolar Disorder
- Bronchiolitis
- Cardiomyopathy
- Cardiovascular Diseases
- Celiac Disease
- Cholangitis
- Chronic Disease
- Colitis
- Colon cancer
- Colonic Neoplasms
- Constriction
- Coronary Artery Disease
- Crohn Disease
- Diabetes Mellitus
- Disease Progression
- Disease Susceptibility
- Edema
- Esophageal Achalasia
- Femur Head Necrosis
- Genetic Predisposition to Disease

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- Graft vs Host Disease
- Graves Disease
- Graves Ophthalmopathy
- Growth Disorders
- Hashimoto Disease
- Hematologic Neoplasms
- Hypertension
- Ileitis
- Infant
- Inflammation
- Inflammatory Bowel Diseases
- Intestinal Fistula
- Intestinal Obstruction
- Irritable Bowel Syndrome
- Liver Cirrhosis
- Lupus Erythematosus
- Multiple Sclerosis
- Myocardial Infarction
- Ovarian Neoplasms
- Psoriasis
- Rectal Fistula
- Recurrence
- Respiratory Syncytial Virus Infections
- Scleroderma
- Skin Diseases
- Spondylitis

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- Stomach Neoplasms
- Thyroiditis
- Tobacco Use Disorder
- Uveomeningoencephalitic Syndrome

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