

# Recombinant Human IL-23R Protein

Catalog No.: RP01376 **Recombinant**

## Sequence Information

Species	Gene ID	Swiss Prot
Human	149233	Q5VWK5-1

### Tags

C-hFc

### Synonyms

IL23R

## Background

IL23R, also known as the IL23 receptor, belongs to the type I cytokine receptor family, Type 2 subfamily. It contains 2 fibronectin type-III domains and is expressed by monocytes, Th1, Th0, NK, and dendritic cells. Isoform 1 is specifically expressed in NK cells. IL23R associates with IL12RB1 to form the interleukin-23 receptor. It binds IL23 and mediates T-cells, NK cells, and possibly certain macrophage/myeloid cell stimulation probably through activation of the Jak-Stat signaling cascade. IL23 functions in innate and adaptive immunity and may participate in acute response to infection in peripheral tissues. IL23 may be responsible for autoimmune inflammatory diseases and be important for tumorigenesis. Genetic variations in IL23R are associated with inflammatory bowel disease type 17 (IBD17). IBD17 is a chronic, relapsing inflammation of the gastrointestinal tract with a complex etiology. Genetic variations in IL23R also can cause susceptibility to psoriasis type 7.

## Product Information

Source	Purification
HEK293 cells	> 95% by SDS-PAGE.

Calculated MW	Observed MW
64.01 kDa	90-110 kDa

### Endotoxin

<1EU/μg

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

## Basic Information

### Description

Recombinant Human IL-23R Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Gly24-Gly355) of human IL23R (Accession #NP\_653302.2) fused with a hFc tag at the C-terminus.

### Bio-Activity

Measured by its binding ability in a functional ELISA. Immobilized Human IL-12B&IL-23A at 5μg/mL (100 μL/well) can bind Human IL23R with a linear range of 4-135 ng/ml.

### 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.

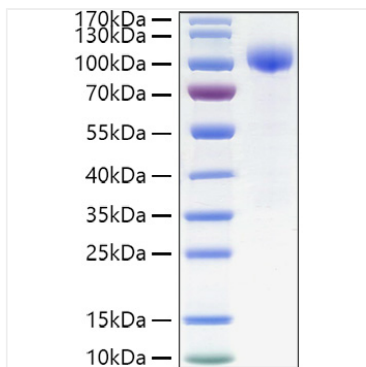
## Contact

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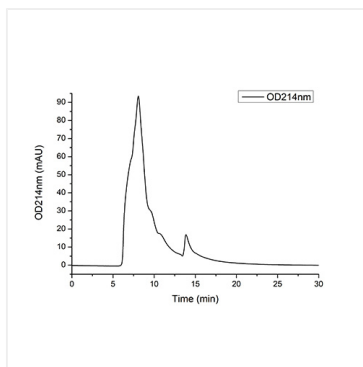
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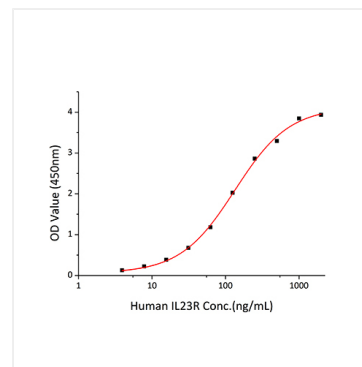
## Validation Data



Recombinant Human IL-23R Protein was determined by SDS-PAGE with Coomassie Blue, showing a band at 90-110kDa.



The purity of Human IL23R Protein (Cat.RP01376) was greater than 95% as determined by SEC-HPLC.



Immobilized Human IL-12B&IL-23A at 5 $\mu$ g/mL (100  $\mu$ L/well) can bind Human IL23R with a linear range of 4-135 ng/ml.