

Recombinant Human IL-23R Protein

Catalog No.: RP01376

Sequence Information

Species **Gene ID**
Human 149233

Swiss Prot **Tags**
Q5VWK5-1 C-hFc

Synonyms
IL23R

Product Information

Source **Purification**
HEK293 cells ≥ 95 % as
 determined by
 SDS-PAGE; ≥95
 % as determined
 by HPLC.

Calculated MW **Observed MW**
64.01 kDa 90-110 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 stabilizer
(e.g. 0.1% BSA, 5% HSA, 10% FBS
or 5% Trehalose), and aliquot the
reconstituted protein solution to
minimize free-thaw cycles.

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.

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.

Activity

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

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°C

Operational Notes

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

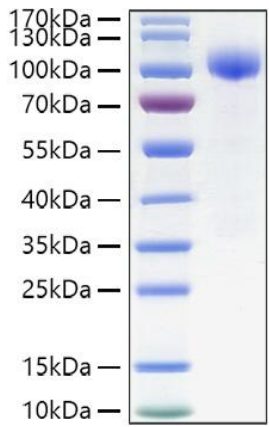
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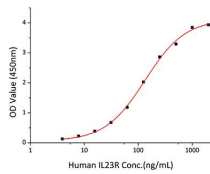
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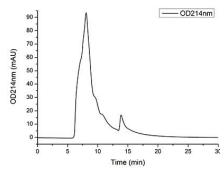
Validation Data



Recombinant Human IL-23R Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.



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.



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