

Recombinant Human IL23R protein, Fc-tagged

Cat. No. IL23R-8614H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human IL23R (Gly24-Gly355) protein was fused to human IgG1 Fc tag at C-terminus and expressed in human 293 cells (HEK293).
Species	Human
Source	HEK293
ProteinLength	Gly24-Gly355
Description	Interleukin 23 receptor (IL-23R) is a type I cytokine receptor, and IL-23R pairs with the receptor molecule IL12RB1/IL12Rbeta1, and both are required for IL23A signaling. Also, IL-23R associates constitutively with Janus kinase 2 (JAK2), and binds to transcription activator STAT3 in a ligand-dependent manner. Furthermore, IL-23R mediates T-cells, NK cells and possibly certain macrophage/myeloid cells stimulation probably through activation of the Jak-Stat signaling cascade. As for IL-23, it may be responsible for autoimmune inflammatory diseases and be important for tumorigenesis.
Predicted N Terminal	Gly24
Form	Lyophilized from 0.22 µm filtered solution in Tris with Glycine, Arginine and NaCl, pH7.5, 10% trehalose.
Molecular Mass	The protein has a calculated MW of 64.5 kDa. The protein migrates as 90-100 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.

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Endotoxin	Less than 1.0 EU per µg by the LAL method.
Purity	>95% as determined by SDS-PAGE.
Storage	For long term storage, the product should be stored at lyophilized state at -20 centigrade or lower. Please avoid repeated freeze-thaw cycles. This product is stable after storage at: -20 to -70 centigrade for 12 months in lyophilized state; -70 centigrade for 3 months under sterile conditions after reconstitution.
Reconstitution	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 ug/ul. Centrifuge the vial at 4°C before opening to recover the entire contents.

GENE INFORMATION

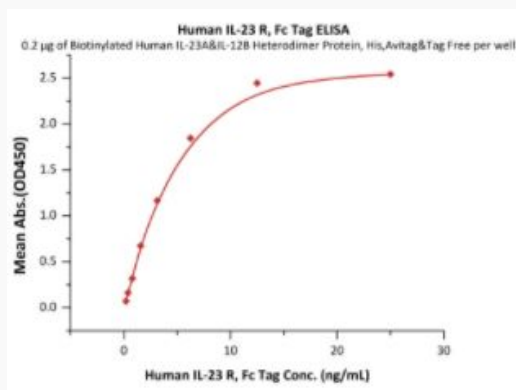
Gene Name	IL23R
Official Symbol	IL23R
Synonyms	IL23R; interleukin 23 receptor; interleukin-23 receptor; IL 23R; IL-23 receptor
Gene ID	149233
mRNA Refseq	NM_144701
Protein Refseq	NP_653302
MIM	607562
UniProt ID	Q5VWK5

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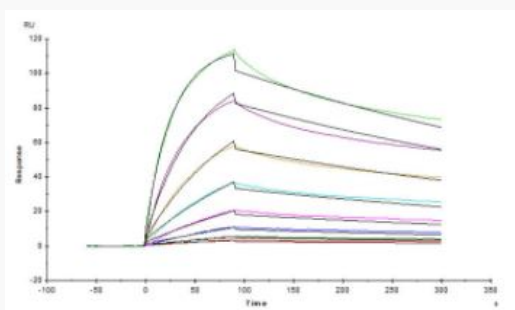
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Bioactivity-ELISA of IL23R-8614H



Immobilized Biotinylated Human IL-23A&IL-12B Heterodimer Protein, His,Avitag&Tag Free at 2 µg/mL (100 µL/well) on streptavidin precoated (0.2 µg/well) plate, can bind Human IL-23 R, Fc Tag with a linear range of 0.4-6 ng/mL (QC tested).

Bioactivity-SPR



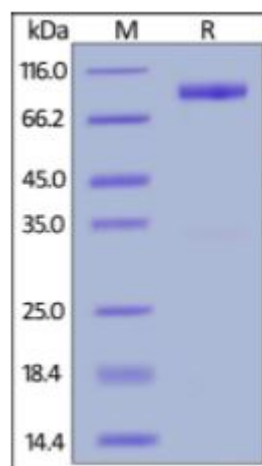
Captured Human IL-23 R, Fc Tag on CM5 chip via anti-human IgG Fc antibodies surface can bind Human IL23A & IL12B, His Tag with an affinity constant of 5.36 nM as determined in a SPR assay (Biacore T200) (Routinely tested).

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SDS-PAGE of IL23R-8614H



Human IL-23 R, Fc Tag on SDS-PAGE under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 95%.