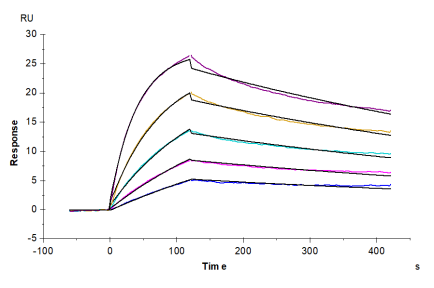
Bioactive HuPro®

IL23R (Human) Recombinant Protein

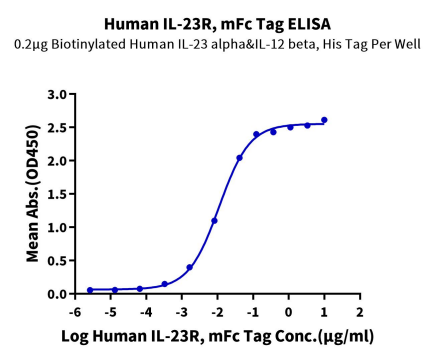
Catalog # P10146 Size 100 ug

Applications



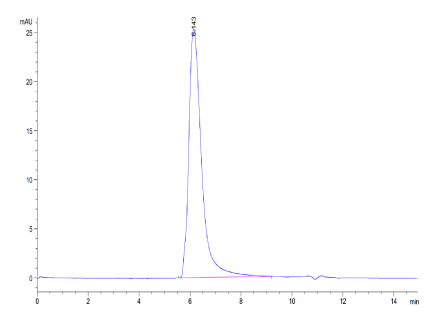
Surface Plasmon Resonance

Human IL-23R, mFc Tag captured on CM5 Chip via Anti-Mouse Antibody can bind Human IL-23 alpha&IL-12 beta, His-Avi Tag with an affinity constant of 11.09 nM as determined in SPR assay (Biacore T200).



ELISA

Immobilized Biotinylated Human IL-23 alpha&IL-12 beta, His Tag at 2 ug/ml (100 ul/Well) on the streptavidin precoated plate (5 ug/ml). Dose response curve for Human IL-23R, mFc Tag with the EC_{50} of 11.1 ng/ml determined by ELISA (QC Test).



SEC-HPLC

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

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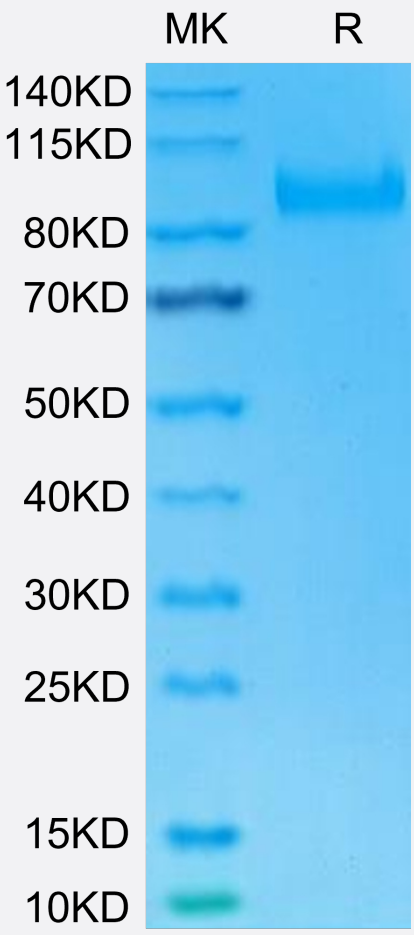

Tris-Bis PAGE

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 mFc tag at C-terminus expressed in HEK293 cells.
Sequence	Gly24-Gly355
Host	Human
Theoretical MW (kDa)	63.7
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)

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Quality Control Testing	ELISA and SEC-HPLC ELISA Immobilized Biotinylated Human IL-23 alpha&IL-12 beta, His Tag at 2 ug/ml (100 ul/Well) on the strep tavidin precoated plate (5 ug/ml). Dose response curve for Human IL-23R, mFc Tag with the EC_{50} of 11.1 ng/ml determined by ELISA (QC Test). SEC-HPLC The purity of Human IL-23R is greater than 95% as determined by SEC-HPLC. Tris-Bis PAGE Human IL-23R on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.
Recommend Usage	Biological Activity ELISA SEC-HPLC SPR Tris-Bis PAGE The optimal working dilution should be determined by the end user.
Storage Buffer	Lyophilized from filtered solution in PBS, pH 7.4 (5% trehalose).
Storage Instruction	After reconstitution with deionized water to a final concentration more than 100 ug/ml, store at 4°C for 1 week. For long term storage, store at -80°C for 1 year. Aliquot to avoid repeated freezing and thawing.

Applications

- Functional Study
- Enzyme-linked Immunoabsorbent Assay
- Surface Plasmon Resonance

  Human IL-23R, mFc Tag captured on CM5 Chip via Anti-Mouse Antibody can bind Human IL-23 alpha&IL-12 beta, His-Avi Tag with an affinity constant of 11.09 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

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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
- Anemia
- Arthritis
- Asthma
- Atherosclerosis
- Autoimmune Diseases
- Behcet Syndrome
- Bipolar Disorder
- Bronchiolitis
- Cardiomyopathy
- Cardiovascular Diseases
- Celiac Disease
- Cholangitis
- Chronic Disease

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- 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
- 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

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

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