

IL-23R Protein, Human, Recombinant (His & Avi), Biotinylated

General Information

Synonyms:	PSORS7;IL-23R
Protein Construction:	A DNA sequence encoding the Human IL23R (AAM44229.1)(Met1-Asp353) was expressed with a c-terminal AVI tagged Fc region of human IgG1 at the C-terminus (Fc-AVI). The expressed protein was biotinylated in vivo by the Biotin-Protein ligase (BirA enzyme) which is co-expressed.
Species:	Human
Expression Host:	HEK293 Cells
Accession:	Q5VWK5
Molecular Weight:	66.41 kDa (predicted); 95.6 kDa (reducing condition)

QC Testing

Biological Activity:	Immobilized IL-23R Protein, Human, Recombinant (His & Avi), Biotinylated (Cat#TMPY-07120) at 2 µg/mL (100 µL/well) on streptavidin precoated (2 µg/mL, 100 µL/well) can bind Recombinant Human IL-23 Heterodimer Protein (His Tag), the EC50 is 5-15 ng/mL.
Purity:	≥ 90% as determined by SDS-PAGE.
Endotoxin:	< 1.0 EU/µg of the protein as determined by the LAL method.
Formulation:	Lyophilized from sterile PBS, pH 7.4. Please contact us for any concerns or special requirements. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization. Please refer to the specific buffer information in the hardcopy of datasheet or the lot-specific COA.

Preparation and Storage

Reconstitution:
Please refer to the lot-specific COA.

Stability & Storage:

It is recommended to store recombinant proteins at -20°C to -80°C for future use. Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein 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.

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