

IL-23R Protein, Human, Recombinant (aa 24-353, hFc)

General Information

Synonyms:	IL-23 receptor;IL23R;Interleukin-23 receptor;IL-23R
Protein Construction:	Gly24-Asp353
Species:	Human
Expression Host:	HEK293 Cells
Accession:	Q5VWK5
Molecular Weight:	90-120 KDa (reducing condition)
AA Sequence:	Gly24-Asp353

QC Testing

Biological Activity:	1. Loaded Human IL-23R-Fc on Protein A Biosensor, can bind Mouse IL-23A with an affinity constant of 3.81 nM as determined in BLI assay. (Regularly tested) 2. Immobilized Human IL-23R-Fc at 10µg/ml (100 µl/well) can bind Human IL-23-His. The ED50 of Human IL-23-His is 0.248 µg/ml. (Regularly tested)
Purity:	Greater than 90% as determined by reducing SDS-PAGE. (QC verified)
Endotoxin:	< 0.1 ng/µg (1 EU/µg) as determined by LAL test.
Formulation:	Lyophilized from a solution filtered through a 0.22 µm filter, containing PBS, pH 7.4.

Preparation and Storage

Reconstitution:

Reconstitute the lyophilized protein in distilled water. The product concentration should not be less than 100 µg/ml. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

Stability & Storage:

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

Interleukin 23 receptor (IL23R) is a type I cytokine receptor for IL23. IL23 receptor complex is comprised of two subunits, the IL12Rβ1 subunit, which is shared with several cytokines, and a subunit that is unique to IL-23. IL23, after binding to IL23R, activates memory T cells and mediates pro-inflammatory activities in part by the production

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of IL17 through activation of TH17 lymphocytes. IL23R is expressed on T cells, NK cells, dendritic cells, and macrophages. In fact, polymorphisms of the IL23R gene were reported to be associated with susceptibility to inflammatory diseases and autoimmune diseases such as psoriasis, multiple sclerosis, Graves's opthalmopathy and inflammatory bowel diseases. The IL23R is known to be critically involved in the carcinogenesis of different malignant tumor.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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