

## IL-23R Protein, Human, Recombinant (hFc), Biotinylated

### General Information

Protein Construction: Gly24-Gly355

Species: Human

Expression Host: HEK293 Cells

Accession: Q5VWK5-1

Molecular Weight: 64.81 kDa (Predicted); 90-110 kDa (Reducing condition, due to glycosylation)

### QC Testing

Biological Activity: Biotinylated Human IL-23R, hFc Avi Tag captured on CM5 Chip via Protein A can bind Human IL-23 alpha&IL-12 beta, His Tag with an affinity constant of 42.04 nM as determined in SPR assay (Biacore T200).

Purity: > 95% as determined by Bis-Tris PAGE

Endotoxin: < 1 EU/μg of the protein as determined by the LAL method.

Formulation: Supplied as 0.22 μm filtered solution in PBS (pH 7.4).

### Preparation and Storage

#### 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

Interleukin-23 (IL-23), a member of the IL-12 family of cytokines, is a heterodimeric cytokine. It is composed of subunits p40 (shared with IL-12) and p19 (an IL-12 p35-related subunit) and is secreted by several types of immune cells, such as natural killer cells and dendritic cells. The IL-23 receptor is composed of the subunit IL-12Rβ1 and the IL-23-specific subunit IL-23R. The binding of IL-23 to its specific cell surface receptor regulates a number of functions, including proliferation and differentiation of cells and secretion of cell factors.

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