

Datasheet for ABIN6810042

**IL23R Protein (AA 24-355) (Fc Tag,AVI tag,Biotin)**[Go to Product page](#)**3** Images

## Overview

Quantity:	200 µg
Target:	IL23R
Protein Characteristics:	AA 24-355
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This IL23R protein is labelled with Fc Tag,AVI tag,Biotin.

## Product Details

Sequence:	AA 24-355
Specificity:	Biotinylation of this product is performed using Avitag™ technology. Briefly, the single lysine residue in the Avitag is enzymatically labeled with biotin.
Purity:	>95 % as determined by SDS-PAGE.
Endotoxin Level:	Less than 1.0 EU per µg by the LAL method.

## Target Details

Target:	IL23R
Alternative Name:	IL-23R ( <a href="#">IL23R Products</a> )
Background:	Interleukin 23 receptor (IL-23R) is a type I cytokine receptor, and IL-23R pairs with the receptor

## Target Details

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.

Molecular Weight: 66.3 kDa

NCBI Accession: [NP\\_653302](#)

Pathways: [Regulation of Leukocyte Mediated Immunity](#), [Positive Regulation of Immune Effector Process](#), [Activated T Cell Proliferation](#)

## Application Details

Comment: Ready-to-use Avitag<sup>TM</sup> biotinylated protein:

The product is exclusively produced using the Avitag<sup>TM</sup> technology. Briefly, a unique 15 amino acid peptide, the Avi tag, is introduced into the recombinant protein during expression vector construction. The single lysine residue in the Avi tag is enzymatically biotinylated by the E. Coli biotin ligase BirA.

This single-point enzymatic labeling technique brings many advantages for commonly used binding assays. The biotinylation happens on the lysine residue of Avi tag, and therefore does NOT interfere with the target protein's natural binding activities. In addition, when immobilized on an avidin-coated surface, the protein orientation is uniform because the position of the Avi tag in the protein is precisely controlled.

Restrictions: For Research Use only

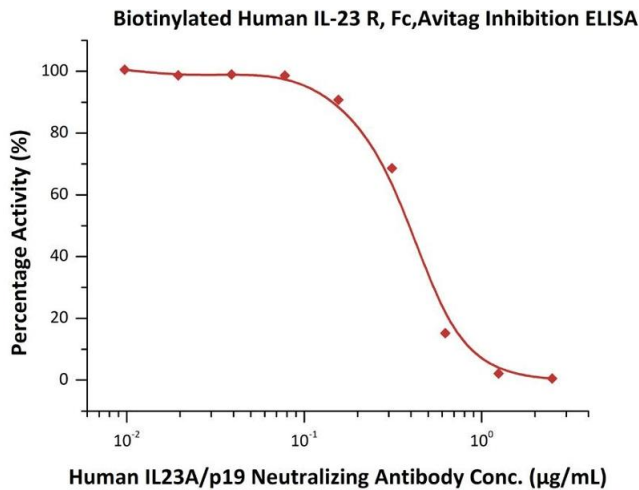
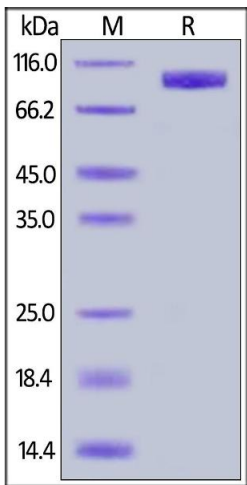
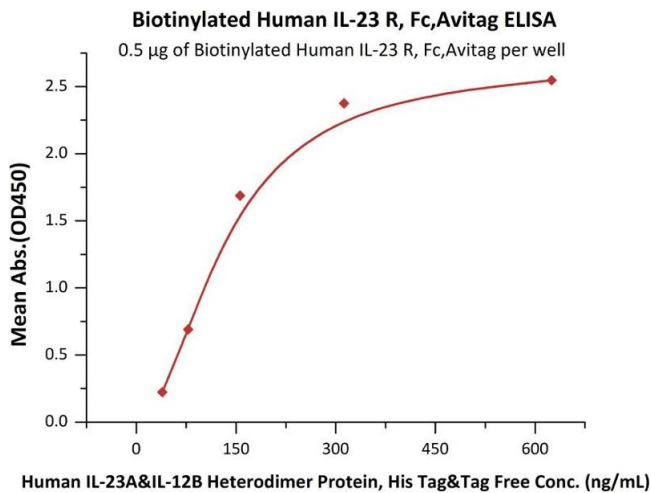
## Handling

Format: Lyophilized

Buffer: Tris with Glycine, Arginine and NaCl, pH 7.5

Handling Advice: Please avoid repeated freeze-thaw cycles.

Storage: -20 °C



### ELISA

**Image 1.** Immobilized Biotinylated Human IL-23 R, Fc,Avitag (ABIN6810042,ABIN6938853) at 5 µg/mL (100 µL/well) on Streptavidin precoated (0.5 µg/well) plate can bind Human IL-23A&IL-12B Heterodimer Protein, His Tag&Tag Free (ABIN4949114,ABIN4949115) with a linear range of 39-156 ng/mL (QC tested).

### SDS-PAGE

**Image 2.** Biotinylated Human IL-23 R, Fc,Avitag on under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 95 % .

### ELISA

**Image 3.** Immobilized Biotinylated Human IL-23 R, Fc,Avitag (ABIN6810042,ABIN6938853) at 5 µg/mL (100 µL/well), can bind increasing concentrations of Human IL23A/p19 Neutralizing Antibody and 0.25 µg/mL (100 µL/well) Human IL-23A&IL-12B Heterodimer Protein, His Tag&Tag Free (ABIN4949114,ABIN4949115) with a half maximal inhibitory concentration (IC<sub>50</sub>) of 0.3889 µg/mL (Routinely tested).