

# Biotinylated Recombinant Human IL-23/IL-12B&IL-23A Protein

Catalog No.: RP00630B **Recombinant**

## Sequence Information

Species	Gene ID	Swiss Prot
Human	51561&3593	Q9NPF7(IL-23 alpha)&P29460(IL-12 beta)

### Tags

C-His&Avi

### Synonyms

IL23 alpha; IL12 beta; IL23 alpha&IL12 beta ; IL12 β; IL23 alpha&IL12 β

## Product Information

Source	Purification
HEK293 cells	> 95% by SDS-PAGE

Calculated MW	Observed MW
21.7 kDa (IL-23 alpha) , 34.7 kDa (IL-12 beta)	24 kDa (IL-23 alpha) , 40-50 kDa (IL-12 beta)

### Endotoxin

< 1 EU/μg of the protein by LAL method

### Formulation

Lyophilized from 0.22 μm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.

### Reconstitution

Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stabilizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

## Contact

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## Background

The interleukin (IL)-12 family of cytokines, including IL12 and IL 23, play an important role in driving aberrant Th1 and Th17 immune responses in patients with Crohn's disease (CD). Targeting this pathway has opened new avenues for therapeutic intervention. The balance of proinflammatory cytokines interleukin (IL)-12 and IL-23 plays a key role in shaping the development of antitumor or protumor immunity.

## Basic Information

### Description

Biotinylated Recombinant Human IL-23/IL-12B&IL-23A Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Arg20-Pro189(IL-23 alpha) & Ile23-Ser328(IL-12 beta)) of Human IL-23 alpha&IL-12 beta (Accession #Q9NPF7(IL-23 alpha)&P29460(IL-12 beta)) fused with a C-His&Avi tag at the C-terminus.

### Bio-Activity

#### Storage

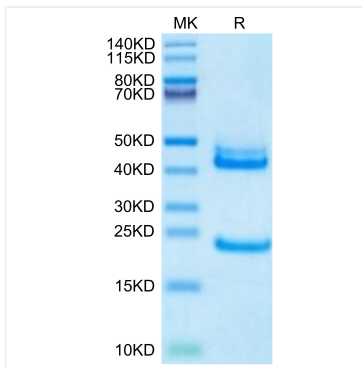
Store at -20°C. Store the lyophilized protein at -20°C to -80 °C up to 1 year from the date of receipt. After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week. Avoid repeated freeze/thaw cycles.



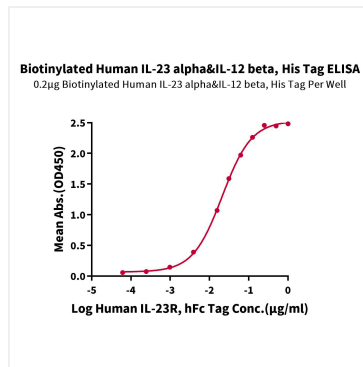
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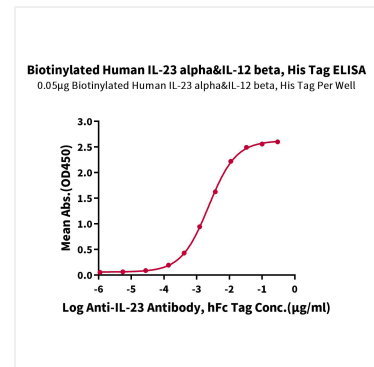
## Validation Data



Biotinylated Human IL-23 alpha&IL-12 beta on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.



Immobilized Biotinylated Human IL-23 alpha&IL-12 beta, His Tag at 2 µg/mL (100 µL/well) on the streptavidin precoated plate (5 µg/mL). Dose response curve for Human IL-23R, hFc Tag with the  $EC_{50}$  of 21.0ng/mL determined by ELISA (QC Test).



Immobilized Biotinylated Human IL-23 alpha&IL-12 beta, His Tag at 0.5 µg/mL (100 µL/Well) on streptavidin (5 µg/mL) precoated plate. Dose response curve for Anti-IL-23 Antibody, hFc Tag with the  $EC_{50}$  of 2.3ng/mL determined by ELISA.