

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

Catalog No.: RP01160 **Recombinant**

## Sequence Information

Species	Gene ID	Swiss Prot
Human	3593&51561	P29460&Q9NPF7

### Tags

No tag(IL12B)&N-his(IL23A)

### Synonyms

IL-23 p19/IL-12 p40;IL23;SGRF ;IL-23 alpha & IL-12 beta

## Product Information

Source	Purification
HEK293 cells	> 95% by SDS-PAGE.

Calculated MW	Observed MW
19.50 kDa(IL-12A), 34.71 kDa(IL-12B)	20 kDa(IL-23A), 45-50 kDa(IL-12B)

### Endotoxin

< 0.1 EU/μg of the protein by LAL method.

### Formulation

Lyophilized from a 0.22 μm filtered solution of PBS, pH 7.4. Contact us for customized product form or formulation.

### 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

### Basic Information

#### Description

Active Recombinant Human IL-12B&IL-23A Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Ile23-Ser328&Arg20-Pro189) of human IL-23 (Accession #NP\_002178.2/NP\_057668.1) fused with a 6×His tag at the N-terminus(IL23A).

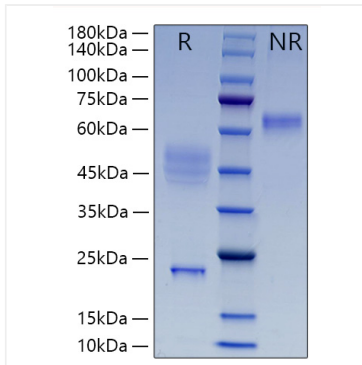
#### Bio-Activity

1. Measured by its binding ability in a functional ELISA. Immobilized Human IL-12B&IL-23A at 5 μg/mL (100 μL/well) can bind Human IL23R with a linear range of 4-135 ng/mL. 2. Measured by its ability to induce IL-17 secretion by mouse splenocytes. The ED<sub>50</sub> for this effect is 21.23-84.94 ng/mL, corresponding to a specific activity of 1.17×10<sup>4</sup>~4.71×10<sup>4</sup> units/mg.

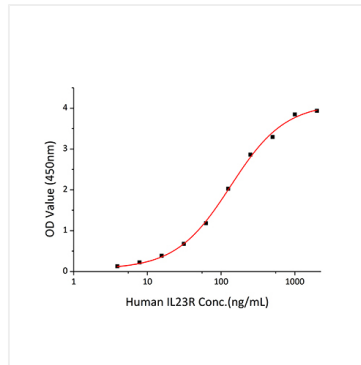
#### Storage

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.

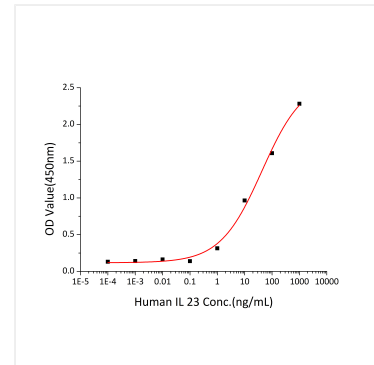
## Validation Data



Recombinant Human IL-23/IL-12B&IL-23A Protein was resolved with SDS PAGE under reducing (R) and non-reducing (NR) conditions, showing single bands at 20(IL-23A), 45-50(IL-12B) kDa and 65-70 kDa, respectively.



Immobilized Human IL-12B&IL-23A at 5µg/mL (100 µL/well) can bind Human IL23R with a linear range of 4-135 ng/mL.



Recombinant Human IL-23/IL-12B&IL-23A induce IL-17 secretion by mouse splenocytes. The ED<sub>50</sub> for this effect is 21.23-84.94 ng/mL, corresponding to a specific activity of 1.17×10<sup>4</sup>~4.71×10<sup>4</sup> units/mg.