

# Recombinant Human IL-23 protein (His Tag)

Catalog Number: Eg1304

| Basic Information | Species:<br>Human | Purity:<br>>90 %, SDS-PAGE | Tag:<br>His Tag |
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## Technical Specifications

**Purity:**  
>90 %, SDS-PAGE

**Endotoxin Level:**  
<0.1 EU/ µg protein, LAL method

**Source:**  
HEK293-derived Human IL-12B Ile23-Ser328 (Accession# P29460)+ linker + IL-23A Arg20-Pro189 (Accession# Q9NPF7) with a His tag at the C-terminus.

**GeneID:**  
3593(IL-12B), 51561(IL-23A)

**Accession:**  
P29460(IL-12B), Q9NPF7(IL-23A)

**Predicted Molecular Mass:**  
58.4 kDa

**SDS-PAGE:**  
52-60 kDa, reducing (R) conditions

**Formulation:**  
Lyophilized from 0.22 µm filtered solution in PBS, pH 7.4. Normally 5% trehalose and 5% mannitol are added as protectants before lyophilization.

## Biological Activity

Not tested

## Storage and Shipping

**Storage:**  
It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

- Until expiry date, -20°C to -80°C as lyophilized proteins.
- 3 months, -20°C to -80°C under sterile conditions after reconstitution.

**Shipping:**  
The product is shipped at ambient temperature. Upon receipt, store it immediately at the recommended temperature.

## Reconstitution

Briefly centrifuge the tube before opening. Reconstitute at 0.1-0.5 mg/mL in sterile water.

## Background

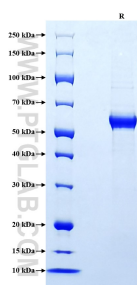
IL-12 and IL-23 are heterodimeric cytokines with a common p40 subunit (PMID: 11114383). IL-12 is composed of the IL-12 p40 subunit linked to the IL-12 p35 subunit, and the heterodimer signals through the IL-12 receptor (IL-12R), which comprises the IL-12R β 1 and IL-12R β 2 subunits. IL-23 is composed of the IL-23 p19 subunit and the IL-12 p40 (IL-12/23p40) subunit, which signals through IL-23R and IL-12R β 1 (PMID: 11114383; 26121196). The importance of IL-23 has been confirmed by clinical data, as monoclonal antibodies (MABs) targeting the p40 subunit (shared by IL-23 and IL-12), as well as p19 (specific for IL-23) were effective in therapy for psoriasis and psoriatic arthritis (PMID: 25754330; 18486740).

## References

- 1.Oppmann, B. et al.(2000) Immunity. 13(5):715-25.
- 2.Teng, MW.et al.(2015) Nat Med. 21(7):719-29.
- 3.Kopp, T. et al.(2015) Nature. 521(7551):222-6.
- 4.Papp, KA. et al.(2008) Lancet. 371(9625):1675-84.

## Synonyms

## Selected Validation Data



Purity of Recombinant Human IL-23 was determined by SDS-PAGE. The protein was resolved in an SDS-PAGE in reducing (R) conditions and stained using Coomassie blue.