

# Active Recombinant Human IL23A&IL12B Protein, His-tagged

**Cat. No.** IL23A-23H    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                              |
|-------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Active Recombinant Human IL23A&IL12B Protein(NP_002178.2&NP_057668.1)(23-328 aa&20-189 aa) is expressed in HEK293, fused with a 6xHis tag at the N-terminus(IL23A).                                                                                                                                                                                                                          |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Source</b>           | HEK293                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>ProteinLength</b>    | 23-328 aa&20-189 aa                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Form</b>             | Lyophilized from a 0.22 µm filtered solution of PBS, pH 7.4.                                                                                                                                                                                                                                                                                                                                 |
| <b>Bio-activity</b>     | 1.Measured by its binding ability in a functional ELISA.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. 2.Measured by its ability to induce IL-17 secretion by mouse splenocytes. The ED50 for this effect is 21.23-84.94 ng/mL, corresponding to a specific activity of $1.17 \times 10^4 \sim 4.71 \times 10^4$ units/mg. |
| <b>Molecular Mass</b>   | 19.50 kDa(IL-12A), 34.71 kDa(IL-12B)                                                                                                                                                                                                                                                                                                                                                         |
| <b>Endotoxin</b>        | < 0.1 EU/µg of the protein by LAL method.                                                                                                                                                                                                                                                                                                                                                    |
| <b>Purity</b>           | ≥ 95 % as determined by SDS-PAGE.                                                                                                                                                                                                                                                                                                                                                            |
| <b>Storage</b>          | Store at -20°C.Store the lyophilized protein at -20°C to -80°C up to 1 year from the                                                                                                                                                                                                                                                                                                         |

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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.

#### 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.

## GENE INFORMATION

**Gene Name** IL23A interleukin 23, alpha subunit p19 [ Homo sapiens ]

**Official Symbol** IL23A

**Synonyms** IL23A; interleukin 23, alpha subunit p19; interleukin-23 subunit alpha; IL 23; IL 23A; IL23P19; interleukin six; G CSF related factor; P19; SGRF; IL-23-A; IL-23p19; IL-23 subunit alpha; interleukin 23 p19 subunit; interleukin-23 subunit p19; JKA3 induced upon T-cell activation; interleukin-six, G-CSF related factor; IL-23; IL-23A; MGC79388;

**Gene ID** 51561

**mRNA Refseq** NM\_016584

**Protein Refseq** NP\_057668

**MIM** 605580

**UniProt ID** Q9NPF7

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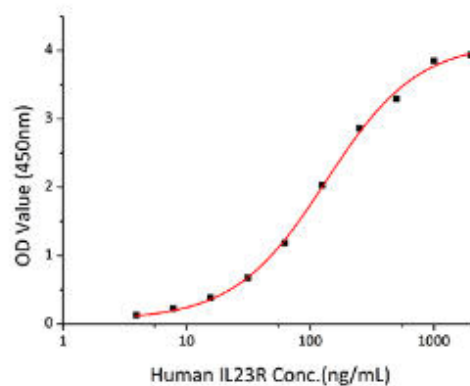
|                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|--------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name 2</b>       | IL12B interleukin 12B (natural killer cell stimulatory factor 2, cytotoxic lymphocyte maturation factor 2, p40) [ Homo sapiens ]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Official Symbol 2</b> | IL12B                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Synonyms 2</b>        | IL12B; interleukin 12B (natural killer cell stimulatory factor 2, cytotoxic lymphocyte maturation factor 2, p40); NKSF2; interleukin-12 subunit beta; CLMF; CLMF2; cytotoxic lymphocyte maturation factor 2; p40; IL 12B; IL12; subunit p40; interleukin 12; interleukin 12 beta chain; natural killer cell stimulatory factor; 40 kD subunit; natural killer cell stimulatory factor 2; NKSF; CLMF p40; IL-12 subunit p40; IL12, subunit p40; interleukin 12, p40; interleukin-12 beta chain; NK cell stimulatory factor chain 2; cytotoxic lymphocyte maturation factor 40 kDa subunit; natural killer cell stimulatory factor, 40 kD subunit; IL-12B; |
| <b>Gene ID 2</b>         | 3593                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>mRNA Refseq 2</b>     | NM_002187                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Protein Refseq 2</b>  | NP_002178                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>MIM 2</b>             | 161561                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>UniProt ID 2</b>      | P29460                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |

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## Activity



## SDS-PAGE

