

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

**Cat. No.** IL12A & IL12B-1242H    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                |
|-------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant Human IL12B and IL23A protein(Ile23-Ser328 and Arg20-Pro189), fused with N-terminal His tag, was expressed in HEK293.                                                                                                                                                                                                                                                              |
| <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 date of receipt.After reconstitution, the protein solution is stable at -20°C for 3 months,                                                                                                                                                                                                               |

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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

IL12B interleukin 12B (natural killer cell stimulatory factor 2, cytotoxic lymphocyte maturation factor 2, p40) [ Homo sapiens ]

#### Official Symbol

IL12B

#### Synonyms

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;

#### Gene ID

3593

#### mRNA Refseq

NM\_002187

#### Protein Refseq

NP\_002178

#### MIM

161561

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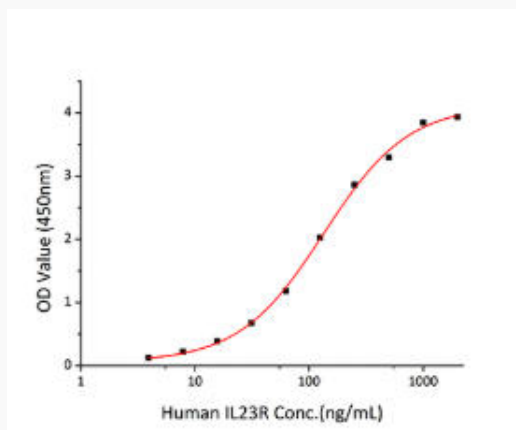
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UniProt ID

P29460

Activity



SDS-PAGE

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