

# Recombinant Mouse IL23 protein, His-tagged

**Cat. No.** IL23-3392M    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                  |
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| <b>Product Overview</b> | Recombinant Mouse IL12B (P43432)(Met1-Ser335) was expressed, constructed the plasmid 1; Recombinant Mouse IL23A (Q9EQ14) (Met1-Ala196) was expressed with a polyhistidine tag at the C-terminus, constructed the plasmid 2. The two plasmids were co-expressed and the IL12B & IL23A heterodimer was purified in HEK293.                                                         |
| <b>Species</b>          | Mouse                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Source</b>           | HEK293                                                                                                                                                                                                                                                                                                                                                                           |
| <b>ProteinLength</b>    | Met1-Ser335&Met1-Ala196                                                                                                                                                                                                                                                                                                                                                          |
| <b>Form</b>             | Lyophilized from sterile PBS, pH 7.4. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.                                                                                                                                                                                                                                   |
| <b>Bio-activity</b>     | Immobilized Recombinant Human IL23R / IL23 Receptor Protein (ECD, Fc Tag) at 2 µg/mL (100 µL/well) can bind Recombinant Mouse IL-23 Heterodimer Protein (His Tag), the EC50 is 11-33 ng/mL.                                                                                                                                                                                      |
| <b>Molecular Mass</b>   | The recombinant heterodimer of Mouse IL12B & IL23A comprises (313+186) amino acids and has a calculated molecular mass of (35.8+21.11) KDa. The apparent molecular mass of Mouse IL12B & IL23A heterodimer is approximately 43.941.426.9 and 23.6 KDa respectively in SDS-PAGE. The molecular weight of this protein is around 62.2 kDa verified by SEC-MALS (Routinely tested). |
| <b>Endotoxin</b>        | < 1.0 EU per µg of the protein as determined by the LAL method                                                                                                                                                                                                                                                                                                                   |

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|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Purity</b>         | ≥ 95 % as determined by SDS-PAGE, ≥ 95 % as determined by SEC-HPLC, ≥ 95% as determined by SEC-MALS(Routinely tested).                                                                                                                          |
| <b>Storage</b>        | Samples are stable for up to twelve months from date of receipt at -20°C to -80°C. Store it under sterile conditions at -20°C to -80°C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles. |
| <b>Reconstitution</b> | It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 ug/ul. Centrifuge the vial at 4°C before opening to recover the entire contents.                                                                   |

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