

Recombinant Human IL-23A&Mouse IL-12B Protein

Catalog No.: RP00632 **Recombinant**

Sequence Information

Species	Gene ID	Swiss Prot
Human	51561&1616	Q9NPF7(Human IL-23 alpha)&P43432-1(Mouse IL-12 beta)

Tags

C-His&Avi

Synonyms

IL23 alpha; IL12 beta; IL23 alpha&IL12 beta ; IL12 β; IL23 alpha&IL12 β

Product Information

Source	Purification
HEK293 cells	> 95% by SDS-PAGE[] > 95% by HPLC

Calculated MW	Observed MW
21.7 kDa (Human IL-23 alpha), 35.8 kDa (Mouse IL-12 beta).	22 kDa (Human IL-23 alpha), 45-60 kDa (Mouse IL-12 beta)

Endotoxin

< 1 EU/μg of the protein by LAL method

Formulation

Lyophilized from 0.22 μm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.

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

Background

Interleukin (IL)-12 and IL-23 belong to the IL-12 type family and are composite cytokines, consisting of the common β subunit p40 and the specific cytokine α subunit p35 and p19, respectively. IL-12 signals via the IL-12Rβ1·IL-12Rβ2 receptor complex, and IL-23 uses also IL-12Rβ1 but engages IL-23R as second receptor.

Basic Information

Description

Recombinant Human IL-23A&Mouse IL-12B Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Arg20-Pro189(Human IL-23 alpha) & Met23-Ser335(Mouse IL-12 beta)) of Human IL-23 alpha&Mouse IL-12 beta (Accession #Q9NPF7(Human IL-23 alpha)&P43432-1(Mouse IL-12 beta)) fused with a C-His&Avi tag at the C-terminus.

Bio-Activity

Storage

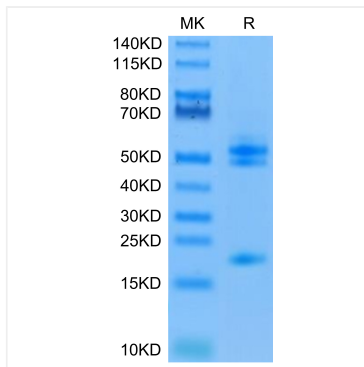
Store at -20°C. Store the lyophilized protein at -20°C to -80 °C up to 1 year from the date of receipt. After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week. Avoid repeated freeze/thaw cycles.

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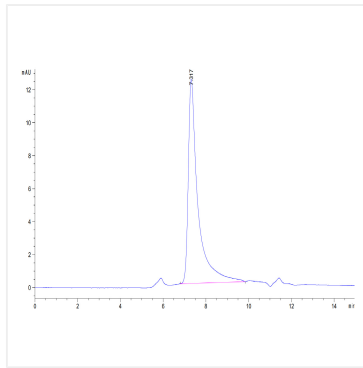
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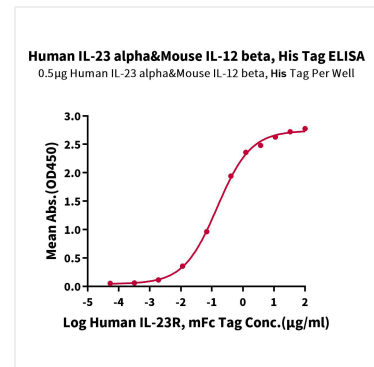
Validation Data



Human IL-23 alpha&Mouse IL-12 beta on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.



The purity of Human IL-23 alpha&Mouse IL-12 beta is greater than 95% as determined by SEC-HPLC.



Immobilized Human IL-23 alpha&Mouse IL-12 beta, His Tag at 5 µg/mL (100 µL/Well) on the plate. Dose response curve for Human IL-23R, mFc Tag with the EC_{50} of 0.15 µg/mL determined by ELISA.