

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

Catalog No.: RP00632B

Sequence Information

Species **Gene ID**
Human 51561&16160

Swiss Prot **Tags**
Q9NPF7(Human IL-23 alpha)
&P43432-1
(Mouse IL-12 beta)

Synonyms

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

Product Information

Source **Purification**
HEK293 cells ≥ 95 % as determined by SDS-PAGE; ≥ 95 % as determined by HPLC.

Calculated MW Observed MW

21.7 kDa	22-25 kDa
(Human IL-23 alpha), 35.8 kDa	(Human IL-23 alpha), 45-60 kDa
(Mouse IL-12 beta)	(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

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

Biotinylated 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.

Activity

Shipping

Lyophilized proteins are shipped at ambient temperature. Liquid proteins are shipped at frozen temperature with dry ice. Upon receipt, store it immediately at the temperature recommended below.

Storage

Store at -20°C

Operational Notes

For your safety and health, please wear a lab coat and disposable gloves for handling.

Contact

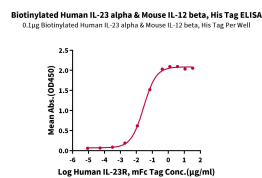
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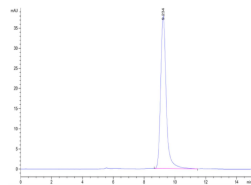
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(e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

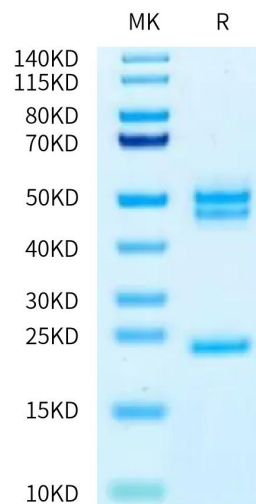
Validation Data



Immobilized Biotinylated Human IL-23 alpha & Mouse IL-12 beta, His Tag at 1 µg /mL (100 µL/well) on the streptavidin precoated plate (5 µg/mL). Dose response curve for Human IL-23R, mFc Tag with the EC₅₀ of 28.1ng/mL determined by ELISA.



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



Biotinylated Recombinant Human IL-23A&Mouse IL-12B Protein was determined by Tris-Bis PAGE under reducing conditions.