

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

Catalog No.: RP00632B Recombinant

Sequence Information

Species Gene ID Swiss Prot
Human 51561&1616 Q9NPF7(Hum
0 an IL-23

alpha)&P434 32-1(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 % as

determined by SDS-PAGE;≥ 95 % as determined by HPLC.

Calculated MW Observed MW

21.7 kDa (Human IL-23 alpha), 35.8 kDa (Mouse IL-12 beta) 22-25 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 stablizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

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-12R β 1·IL-12R β 2 receptor complex, and IL-23 uses also IL-12R β 1 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.

Bio-Activity

Shipping

The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

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.

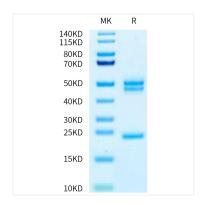
Operational Notes

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

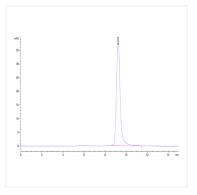
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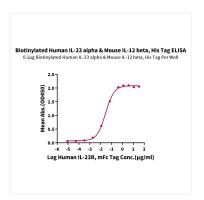
Validation Data



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



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



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