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

Catalog No.: RP00630B

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Sequence Information

Species
Human

Gene ID
51561&3593

Swiss Prot
Q9NPF7(IL-23 alpha)&P29460 (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
HEK293 cells

Purification
≥ 95 % as determined by SDS-PAGE.

Calculated MW
21.7 kDa (IL-23 alpha) , 34.7 kDa (IL-12 beta)

Observed MW
24 kDa (IL-23 alpha) , 40-50 kDa (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

The interleukin (IL)-12 family of cytokines, including IL12 and IL 23, play an important role in driving aberrant Th1 and Th17 immune responses in patients with Crohn's disease (CD). Targeting this pathway has opened new avenues for therapeutic intervention. The balance of proinflammatory cytokines interleukin (IL)-12 and IL-23 plays a key role in shaping the development of antitumor or protumor immunity.

Basic Information

Description
Biotinylated Recombinant Human IL-23/IL-12B&IL-23A Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Arg20-Pro189(IL-23 alpha) & Ile23-Ser328(IL-12 beta)) of Human IL-23 alpha&IL-12 beta (Accession #Q9NPF7(IL-23 alpha)&P29460(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℃

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

Contact

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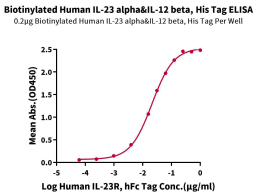
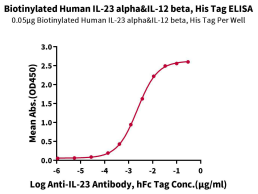
For research use only. Not for therapeutic or diagnostic purposes.
Please visit http://abclonal.com for a complete listing of recommended products.

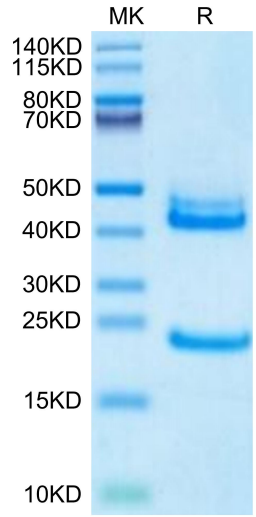
Validation Data



Immobilized Biotinylated Human IL-23 alpha&IL-12 beta, His Tag at 2 μg/mL (100 μL /well) on the streptavidin precoated plate (5 μg/mL). Dose response curve for Human IL-23R, hFc Tag with the EC_{50} of 21.0ng/mL determined by ELISA (QC Test).



Immobilized Biotinylated Human IL-23 alpha&IL-12 beta, His Tag at 0.5 μg/mL (100 μL/Well) on streptavidin (5 μg/mL) precoated plate. Dose response curve for Anti-IL-23 Antibody, hFc Tag with the EC_{50} of 2.3ng/mL determined by ELISA.



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