

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

Catalog No.: RP00638B Recombinant

Sequence Information

Species Gene ID Swiss Prot Human 3592&3593 P29459&P29

460

Tags

C-His&Avi

Synonyms

CLMF; CLMF2; IL-12A; IL-12B; IL12; IL12 p70; IMD28; IMD29; NFSK; NKSF1; NKSF2; P35; IL-12 subunit p35; IL12A; interleukin 12

Product Information

Source Purification

HEK293 cells

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

Calculated MW Observed MW

34.7 kDa (IL-12B), 40-45 kDa 25.5 kDa (IL-12A)

Endotoxin

< 1 EU/ μ g 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.

Contact

400-999-6126

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Background

Interleukin 12 (IL-12) is a pleiotropic cytokine that plays an essential role in Th1-type immune response against cancer, a condition where cells in a particular part of the body grow and reproduce uncontrollably.

Basic Information

Description

Biotinylated Recombinant Human IL-12/IL-12A&IL-12B Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Ile23-Ser328)&(Arg23-Ser219) of Human IL-12/IL-12A&IL-12B (Accession #P29460&P29459) 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.

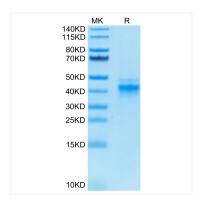
After reconstitution, the protein solution is stable at -20 $^{\circ}$ C for 3 months, at 2-8 $^{\circ}$ C for up to 1 week.

Avoid repeated freeze/thaw cycles.

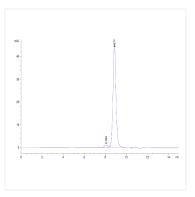
Operational Notes

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

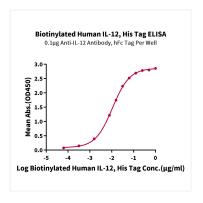
Validation Data



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



The purity of Bitinylated Human IL-12 is greater than 95% as determined by SEC-HPLC.



Immobilized Anti-IL-12 Antibody, hFc Tag at 1 μ g/mL (100 μ L/well) on the plate. Dose response curve for Biotinylated Human IL-12, His Tag with the EC $_{50}$ of 10.8ng/mL determined by ELISA.