

RP00638

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Recombinant Human IL-12 Protein

Catalog No.: RP00638

Recombinant

Sequence Information

Species	Gene ID	Swiss Prot
HEK293 cells	3593&3592	P29460(IL-12B)&P29459(IL-12A)

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% by SDS-PAGE ; > 95% by SEC-HPLC

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



www.abclonal.com

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

Recombinant Human IL-12 Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Ile23-Ser328(IL-12B) & Arg23-Ser219(IL-12A)) of Human IL-12 (Accession #P29460(IL-12B)&P29459(IL-12A)) fused with a C-His&Avi tag at the C-terminus.

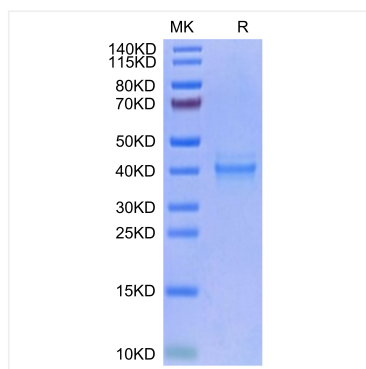
Bio-Activity

Storage

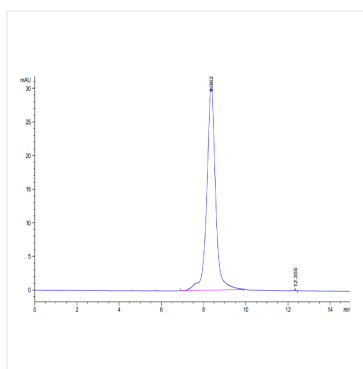
Store at -20°C. Store the lyophilized protein at -20°C to -80 °C up to 1 year from the date of receipt. After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week. Avoid repeated freeze/thaw cycles.

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

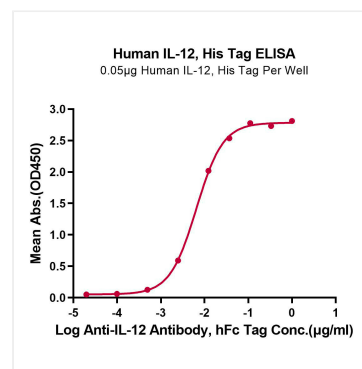
Validation Data



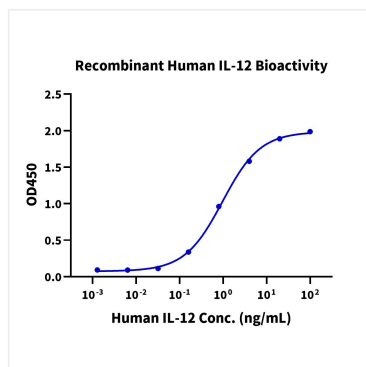
Human IL-12 on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.



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



Immobilized Human IL-12, His Tag at 0.5 µg/mL (100 µL/well) on the plate. Dose response curve for Anti-IL-12 Antibody, hFc Tag with the EC_{50} of 2.1ng/mL determined by ELISA (QC Test).



Measured by its ability to induce Interferon gamma secretion by human natural killer lymphoma NK-92 cells. The ED_{50} for this effect is 0.1 - 1 ng/mL.