

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

Catalog No.: RP01232 Recombinant

Sequence Information

 Species
 Gene ID
 Swiss Prot

 Human
 3592&3593
 P29459&P29

 460
 460

Tags

C-His(IL12B)&C-Flag(IL12A)

Synonyms

CLMF;IL12;p70;Interleukin-12;IL12A;P35; NKSF

Product Information

Source Purification
HEK293 cells > 95% by SDSPAGE.

Endotoxin

< 0.1 EU/ μ g of the protein by LAL method.

Formulation

Lyophilized from a 0.22 µm filtered solution of PBS, pH 7.4.Contact us for customized product form or formulation.

Reconstitution

Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid votex 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

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Background

Basic Information

Description

Active Recombinant Human 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 (Accession #NP_002178.2/NP_000873.2) fused with a $6\times$ His tag at the C-terminus(IL12B), Flag tag at the C-terminus(IL12A).

Bio-Activity

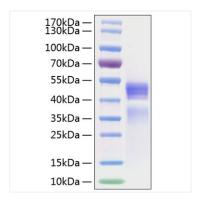
1.Measured by its binding ability in a functional ELISA. Immobilized Recombinant Human IL-12 at 1 μ g/mL (100 μ L/well) can bind Recombinant Human IL12R β 1 with a linear range of 30.6-122.4 ng/mL.|2.Measured in a cell proliferation assay using anti-CD3 antibody activated Human T lymphocyte leukemia cells (jurkat). The ED₅₀ for this effect is typically 0.1-0.4 ng/mL, corresponding to a specific activity of 2.5×10^6 - 1.0×10^7 units/mg.|3.Measured by its ability to induce Interferon gamma secretion by human natural killer lymphoma NK-92 cells. The ED₅₀ for this effect is 2-8 ng/mL, corresponding to a specific activity of $1.25\times10^5\sim5\times10^5$ units/mg.

Storage

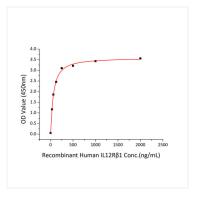
Store the lyophilized protein at -20°C to -80 °C for long term. After reconstitution, the protein solution is stable at -20 °C for 3 months, at 2-8 °C for up to 1 week.

Avoid repeated freeze/thaw cycles.

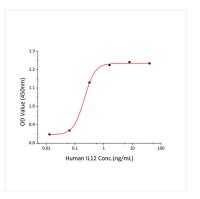
Validation Data



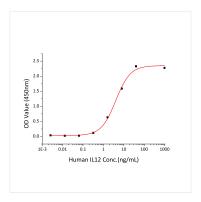
Active Recombinant Human IL-12A&IL-12B Protein was determined by SDS-PAGE with Coomassie Blue, showing bands at 37 kDa and 40-55 kDa.



Immobilized Recombinant Human IL-12 at 1 μ g/mL (100 μ L/well) can bind Recombinant Human IL12R β 1 with a linear range of 30.6-122.4 ng/mL.



Recombinant Human IL-12 promotes the proliferation of anti-CD3 antibody activated Human T lymphocyte leukemia cells (jurkat). The ED_{50} for this effect is typically 0.1-0.4 ng/mL, corresponding to a specific activity of 2.5×10^6 - 1.0×10^7 units/mg.



Recombinant Human IL-12/IL-12A&IL-12B induce Interferon gamma secretion by human natural killer lymphoma NK-92 cells. The ED $_{50}$ for this effect is 2-8 ng/mL, corresponding to a specific activity of $1.25\times10^5\sim5\times10^5$ units/mg.