

Recombinant Human IL-4 Protein

Catalog No.: RP01597 **Recombinant**

Sequence Information

Species	Gene ID	Swiss Prot
Human	3565	P05112

Tags

N-His

Synonyms

BCGF-1; BCGF1; BSF-1; BSF1;
IL-4; IL4; BCGF1; BSF-1; BSF1; IL-4

Product Information

Source	Purification
<i>Pichia</i>	> 95% by SDS-PAGE.

Endotoxin

<0.1EU/μg

Formulation

Lyophilized from a 0.22 μm filtered solution of PBS, pH 7.4.

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 freeze-thaw cycles.

Contact

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Background

Interleukin-4, also known as IL4, is a secreted protein that belongs to the IL-4 / IL-13 family. Interleukin-4 / IL4 has many biological roles, including the stimulation of activated B-cell and T-cell proliferation. It enhances both secretion and cell surface expression of IgE and IgG1. Interleukin-4 / IL4 also regulates the expression of the low-affinity Fc receptor for IgE (CD23) on both lymphocytes and monocytes. Interleukin-4 is essential for the switching of B cells to IgE antibody production and the maturation of T helper (Th) cells toward the Th2 phenotype.

Basic Information

Description

Recombinant Human IL-4 Protein is produced by *Pichia* expression system. The target protein is expressed with sequence (His25-Ser153) of human IL-4 (Accession #NP_000580.1) fused with and a 6×His tag at the N-terminus.

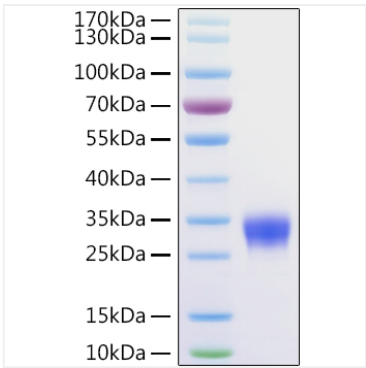
Bio-Activity

Measured in a cell proliferation assay using TF-1 human erythroleukemic cells. The ED₅₀ for this effect is 0.25-1.00 ng/mL.

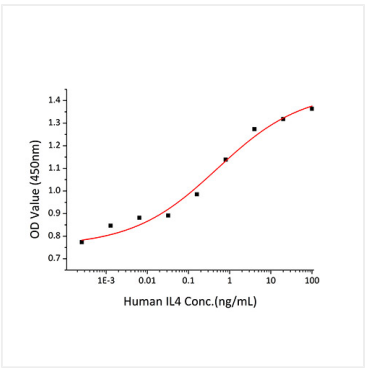
Storage

Store the lyophilized protein at -20°C to -80°C for 12 months. 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



Recombinant Human IL4 was determined by SDS-PAGE with Coomassie Blue, showing a band at 25-35 kDa.



Recombinant Human IL-4 stimulates cell proliferation of the TF-1 human erythroleukemic cells. The ED₅₀ for this effect is 0.25-1.00 ng/mL.