Recombinant Human IL-4 Protein

Catalog No.: RP01703

Sequence Information

Species
Human

Gene ID
3565

Swiss Prot
P05112-1

Tags
No-tag

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

Product Information

Source
HEK293 cells

Purification
≥ 90 % as determined by SDS-PAGE.

Calculated MW
14.96 kDa

Observed MW
15-25 kDa

Endotoxin
< 0.1 EU/μg of the protein by LAL method.

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 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

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 HEK293 cells expression system. The target protein is expressed with sequence (His25-Ser153) of human IL-4 (Accession #NP_000580.1) fused with no additional amino acid.

Activity
Measured in a cell proliferation assay using TF-1 human erythroleukemic cells. The ED_{50} for this effect is 0.06-0.24 ng/mL, corresponding to a specific activity of 4.17×10^{6}-1.67×10^{7} units/mg.

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℃

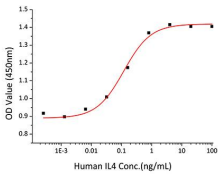
Operational Notes
For your safety and health, please wear a lab coat and disposable gloves for handling.

Contact

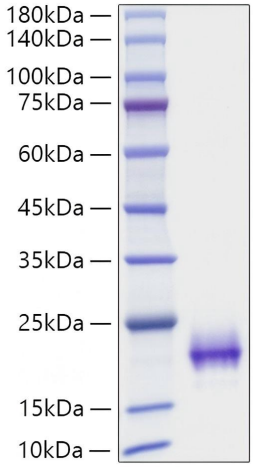
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Validation Data



Recombinant Human IL-4 stimulates cell proliferation of the TF-1 human erythroleukemic cells. The ED_{50} for this effect is 0.06-0.24 ng/mL, corresponding to a specific activity of 4.17×10^{6}-1.67×10^{7} units/mg.



Recombinant Human IL-4 Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.