

IL-4 Protein, Human, Recombinant (His & Avi)

General Information

Synonyms:	IL4;B cell growth factor 1;interleukin 4;BCGF1;BSF1;binetrakin;BCGF-1;pitraikinra;BCDF;BSF-1;IL-4;MGC79402
Protein Construction:	His25-Ser153
Species:	Human
Expression Host:	HEK293 Cells
Accession:	P05112
Molecular Weight:	17.8 kDa (predicted). Due to glycosylation, the protein migrates to 23-25 kDa based on Tris-Bis PAGE result.

QC Testing

Biological Activity:	1. Immobilized Human IL-4 at 0.5µg/ml (100µl/well) on the plate. Dose response curve for Human IL-4 R alpha, hFc Tag with the EC50 of 18.4ng/ml determined by ELISA (QC Test). 2. Measured in a cell proliferation assay using TF-1 human erythroleukemic cells. The ED50 for this effect is <0.2 ng/mL.
Purity:	> 95% as determined by Tris-Bis PAGE
Endotoxin:	< 1.0 EU/µg of the protein as determined by the LAL method.
Formulation:	Lyophilized from a solution filtered through a 0.22 µm filter, containing PBS (pH 7.4). Typically, 8% trehalose is incorporated as a protective agent before lyophilization.

Preparation and Storage

Reconstitution:

Reconstitute the lyophilized protein in distilled water. The product concentration should not be less than 100 µg/ml. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

Stability & Storage:

It is recommended to store recombinant proteins at -20°C to -80°C for future use. Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

Interleukin-4, also known as IL4, is a secreted protein which 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. In the presence of

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IL-4 and IL-13, cytokines that are produced in a Th-2 type response, particularly during allergy and parasitic infections, macrophages become differentially activated, And this cytokine is a ligand for interleukin 4 receptor. .

Reference

Ghoreschi K, et al. Interleukin-4 therapy of psoriasis induces Th2 responses and improves human autoimmune disease[J]. Nature Medicine, 2002, 9(1):40-46.

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