

IL-4 Protein, Mouse, Recombinant (His)

General Information

Synonyms:	BCDF;MCGF-2;B cell differentiation factor;B cell stimulatory factor-1;BSF 1;Mast-cell growth factor-2;BSF-1;IL4;T cell growth factor-2;TCGF-2;BSF1;BCGF-1;IL-4;B cell growth factor-1; interleukin 4
Protein Construction:	His21-Ser140
Species:	Mouse
Expression Host:	HEK293 Cells
Accession:	P07750
Molecular Weight:	15.17 kDa (Predicted); 20-30 kDa (Reducing condition, due to glycosylation)

QC Testing

Biological Activity:	Mouse IL-4 R alpha, His Tag immobilized on CM5 Chip can bind Mouse IL-4, His Tag with an affinity constant of 21.13 pM as determined in SPR assay (Biacore S200).
Purity:	> 95% as determined by Bis-Tris PAGE; > 95% as determined by HPLC
Endotoxin:	< 0.1 EU/µg of the protein as determined by the LAL method.
Formulation:	Lyophilized from 0.22 µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant 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 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.

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