

IL-4 Protein, Human, Recombinant V2

General Information

Synonyms:	Interleukin-4;BSF1;BSF-1;interleukin 4;BCGF-1;BCGF1;IL-4
Protein Construction:	His25-Ser153
Species:	Human
Expression Host:	E. coli
Accession:	P05112
Molecular Weight:	15.1 kDa (Predicted); 13-14 kDa (Reducing conditions)

QC Testing

Biological Activity:	Immobilized Human AXL-His at 10 µg/ml (100 µl/well) can bind Human GAS6-His*.*: Biotinylated by NHS-biotin prior to testing The ED50 of Recombinant Human GAS6-His* is 0.04466 µg/ml. (Regularly tested)
Purity:	> 95% as determined by SDS-PAGE
Endotoxin:	< 0.01 EU/µg of the protein as determined by the LAL method.
Formulation:	Lyophilized from a 0.2 µm filtered solution of 20 mM Tris-HCl, 150 mM NaCl, pH 7.2.

Preparation and Storage

Reconstitution:

Reconstitute the lyophilized protein in sterile deionized 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:

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 (IL-4) is a pleiotropic cytokine that regulates diverse T and B cell responses including cell proliferation, survival and gene expression. IL-4 is produced by mast cells, T cells, and bone marrow stromal cells. IL-4 regulates the differentiation of naive CD4+ T cells into helper Th2 cells, characterized by their cytokine-secretion profile that includes secretion of IL-4, IL-5, IL-6, IL-10, and IL-13, which favor a humoral immune response. Another dominant function of IL-4 is the regulation of immunoglobulin class switching to the IgG1 and IgE isotypes. Excessive IL-4 production by Th2 cells has been associated with elevated IgE production and allergic

response.

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