



IL-4

E21-D03

Catalog Number:E21-D03

Amount:10ug

Altername:Interleukin-4; IL-4; B-Cell Stimulatory Factor 1; BSF-1; Binetrakin; Lymphocyte Stimulatory Factor 1; Pitrakinra; IL4

Storage/Stability:Lyophilized protein should be stored at < -20°C, though stable at room temperature for 3 weeks.Reconstituted protein solution can be stored at 4-7°C for 2-7 days.Aliquots of reconstituted samples are stable at < -20°C for 3 months.

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.

Species:Human

Reconstitution:Always centrifuge tubes before opening. Do not mix by vortex or pipetting.It is not recommended to reconstitute to a concentration less than 100 µg/ml.Dissolve the lyophilized protein in ddH2O.Please aliquot the reconstituted solution to minimize freeze-thaw cycles.

Endotoxin:Less than 0.1 ng/µg (1 IEU/µg) as determined by LAL test.

Purity:Greater than 95% as determined by reducing SDS-PAGE.

Description:Recombinant Human Interleukin-4 is produced by our Mammalian expression system and the target gene encoding His25-Ser153 is expressed.

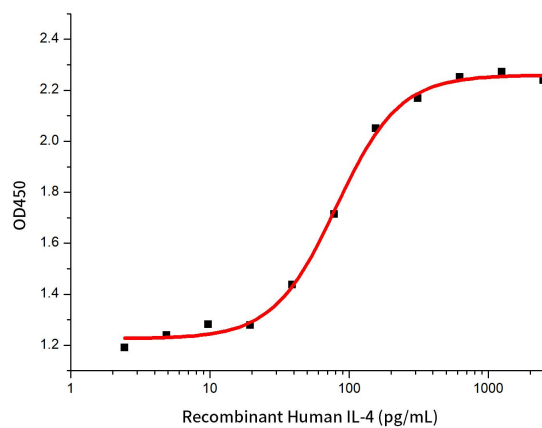
Product State:Lyophilized

Ship Description:The product is shipped at ambient temperature.

Formulation:Lyophilized from a 0.2 µm filtered solution of 20mM PB, 150mM NaCl, pH 7.4.

Expression system:Human cells

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Measured in a cell proliferation assay using TF-1 human erythroleukemic cells. The specific activity of Recombinant human IL-4 is $\geq 1.0 \times 10^7$ IU/mg, which is calibrated against the human IL-4 WHO International Standard (NIBSC code: 88/656)

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