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Recombinant Mouse Interleukin-4/IL-4 Protein (His Tag)

Catalog No. PKSM041094

Note: Centrifuge before opening to ensure complete recovery of vial contents.

Description

Synonyms Interleukin-4;IL-4;IL4;B-cell IgG differentiation factor;B-cell growth factor 1;B-cell

stimulatory factor 1;BSF-1;IGG1 induction factor;Lymphocyte stimulatory factor 1

Species Mouse

Expression Host HEK293 Cells
Sequence His21-Ser140
Accession P07750
Calculated Molecular Weight 14.6 kDa
Observed molecular weight 15-19 kDa

Tag C-His

Bioactivity Measured in a cell proliferation assay using M-NFS-60 mouse lymphoblast cells.

The ED_{50} for this effect is 0.035 ng/ml.

Properties

Purity > 95 % as determined by reducing SDS-PAGE.

Endotoxin < 1.0 EU per µg of the protein as determined by the LAL method.

Storage Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to

-80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots

of reconstituted samples are stable at < -20°C for 3 months.

Shipping This product is provided as lyophilized powder which is shipped with ice packs.

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

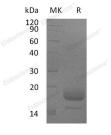
Normally 5% - 8% trehalose, mannitol and 0.01% Tween 80 are added as

protectants before lyophilization.

Please refer to the specific buffer information in the printed manual.

Reconstitution Please refer to the printed manual for detailed information.

Data



> 95 % as determined by reducing SDS-PAGE.

Background

For Research Use Only

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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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