

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



Catalog Number:PKSM041094

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

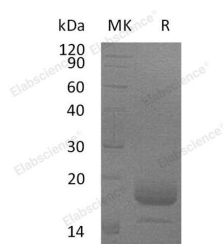
Description

| | |
|------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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% Tween80 are added as protectants before lyophilization. Please refer to the specific buffer information in the printed man |
| Reconstitution | Please refer to the printed manual for detailed information. |

Data



> 95 % as determined by reducing SDS-PAGE.

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

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cells has been associated with elevated IgE production and allergic response.

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