

**IL-4/BSF-1 (C-6His), Mouse, Recombinant**

Cat. No. : PCK034

**General Information**

|                        |                                                                                                                                                                         |
|------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Synonyms</b>        | 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 |
| <b>Species</b>         | Mouse                                                                                                                                                                   |
| <b>Expression host</b> | Human Cells                                                                                                                                                             |
| <b>Sequence</b>        | His21-Ser140                                                                                                                                                            |
| <b>Accession</b>       | P07750                                                                                                                                                                  |
| <b>Tag</b>             | C-6His                                                                                                                                                                  |
| <b>Mol mass</b>        | 14.6 kDa                                                                                                                                                                |
| <b>Expiration date</b> | 12 months                                                                                                                                                               |
| <b>Bio activity</b>    | Measured in a cell proliferation assay using M-NFS-60 mouse lymphoblast cells. The ED50 for this effect is 60-300 pg/mL.                                                |

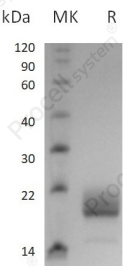
**Product feature**

|                          |                                                                                                                                                                                                                                                                                       |
|--------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Purity</b>            | > 95% as determined by reducing SDS-PAGE.                                                                                                                                                                                                                                             |
| <b>Endotoxin (EU/μg)</b> | < 0.1                                                                                                                                                                                                                                                                                 |
| <b>Storage</b>           | Lyophilized protein should be stored at -5~-20°C, stable for one year after receipt. Reconstituted protein solution can be stored at 2-8°C for 2-7 days. Aliquots of reconstituted samples are stable at -5~-20°C for 3 months.                                                       |
| <b>Shipping</b>          | Ice bag                                                                                                                                                                                                                                                                               |
| <b>Formulation</b>       | Lyophilized from a 0.2 μm filtered solution of 20 mM PB, 150 mM NaCl, pH 7.4.                                                                                                                                                                                                         |
| <b>Reconstitution</b>    | 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 sterile water. Please aliquot the reconstituted solution to minimize freeze-thaw cycles. |

**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.

SDS-PAGE



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