



## IL-4

E21-K15

**Catalog Number:**E21-K15

**Amount:**10ug

**Altername:**Interleukin-4;B-cell IgG differentiation factor;B-cell growth factor 1;B-cell stimulatory factor 1;IGG1 induction factor;Lymphocyte stimulatory factor 1;IL-4;BSF-1

**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:**Mouse Interleukin-4(IL-4) is a monomeric, Th2 cytokine that shows pleiotropic effects during immune responses. It is a glycosylated polypeptide that contains three intrachain disulfide bridges and adopts a bundled four  $\alpha$ -helix structure. IL-4 exerts its effects through two receptor complexes, Participates in at least several B-cell activation processes as well as of other cell types. IL-4 is primarily expressed by Th2-biased CD4+T cells, mast cells, basophils, and eosinophils. It promotes cell proliferation, survival, and immunoglobulin class switch to IgG1 and IgE in mouse B cells, acquisition of the Th2 phenotype by naïve CD4+T cells, priming and chemotaxis of mast cells, eosinophils, and basophils, and the proliferation and activation of epithelial cells. IL-4 plays a dominant role in the development of allergic inflammation and asthma. It also regulates the expression of the low affinity Fc receptor for IgE (CD23) on both lymphocytes and monocytes.

**Species:**Mouse

**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  $\mu$ g/ml.Dissolve the lyophilized protein in ddH<sub>2</sub>O.Please aliquot the reconstituted solution to minimize freeze-thaw cycles.

**Endotoxin:**Less than 0.1 ng/ $\mu$ g (1 IEU/ $\mu$ g) as determined by LAL test.

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

**Description:**Recombinant Mouse Interleukin-4 is produced by our E.coli expression system and the target gene encoding His23-Ser140 is expressed.

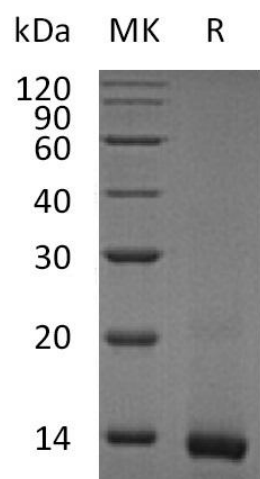
**Product State:**Lyophilized

**Ship Description:**The product is shipped at ambient temperature.

**Formulation:**Lyophilized from a 0.2  $\mu$ m filtered solution of PBS, pH7.4.

**Expression system:**E.coli

**For Research Use Only**



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