重组小鼠白介素4(IL-4)

IL-4,Recombinant Mouse Interleukin-4

Cat. No.: MA1368-1 Size: 10μg

Source: E.coli

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

Accession: P07750

Known As: 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

Predicted Mol Mass: 13.4 KDa

Apparent Mol Mass: 14 KDa, reducing conditions

Endotoxin: < 1 EU/μg as determined by LAL test.

Formulation: Lyophilized from a 0.2 μm filtered solution of 20mM PB,5% Sucrose,4% Mannitol,0.1% PS-80,pH 6.5.

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

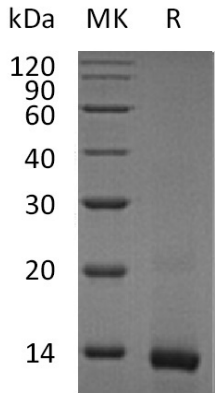
Shipping: The product is shipped at ambient temperature.Upon receipt, store it immediately at the temperature listed below.

Storage: Lyophilized protein should be stored at ≤ -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 ≤ -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 αhelix structure. IL4 exerts its effects through two receptor complexes, Participates in at least several B-cell activation processes as well as of other cell types. IL4 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

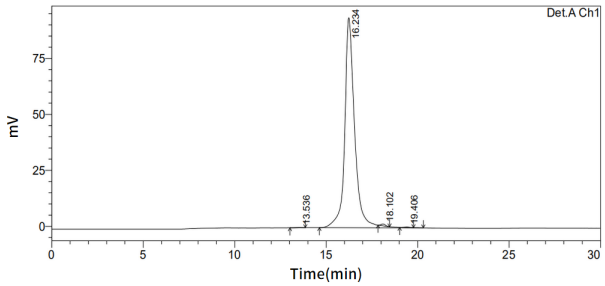
epithelial cells. IL4 plays a dominant role in the development of allergic inflammation and asthma. It also regulates the expression of the low affinity Fc receptor for IgE (CD23) on both lymphocytes and monocytes.

Purity-SDS-PAGE:



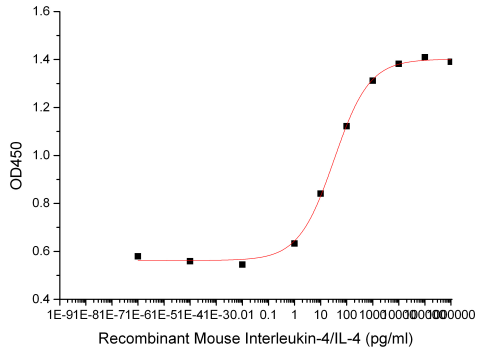
Greater than 95% as determined by reducing SDS-PAGE.

Purity-SEC-HPLC:



Greater than 95% as determined by SEC-HPLC. (Regularly tested)

Bioactivity-Cell Based Assay:



Measured in a cell proliferation assay using M-NFS-60 mouse lymphoblast cells. The ED50 for this effect is 0.01 ng/ml.

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