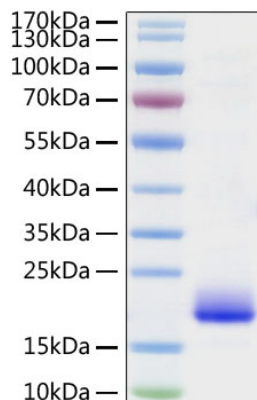


Product name:	Recombinant Mouse IL-4 Protein
Cat number:	GF01161
Size:	20 ug
Synonyms:	IL-4; BSF-1; IL4
Molecular Weight:	14.15 kDa
Purification:	> 95% by SDS-PAGE.
Background:	Interleukin-4, also known as IL4, is a secreted protein that belongs to the IL-4 / IL-13 family. Interleukin-4 / IL4 has many biological roles, including the stimulation of activated B-cell and T-cell proliferation. It enhances both secretion and cell surface expression of IgE and IgG1. Interleukin-4 / IL4 also regulates the expression of the low-affinity Fc receptor for IgE (CD23) on both lymphocytes and monocytes. Interleukin-4 is essential for the switching of B cells to IgE antibody production and the maturation of T helper (Th) cells toward the Th2 phenotype.
Form:	lyophilized
Storage:	Store at -20°C. Store the lyophilized protein at -20°C to -80 °C up to 1 year from the date of receipt. After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.
Tags:	C-His
Source:	HEK293 cells
Description:	High quality, high purity and low endotoxin recombinant Recombinant Mouse IL-4 Protein (RP01161), tested reactivity in HEK293 cells and has been validated in SDS-PAGE. 100% guaranteed.
Endotoxin:	< 0.1 EU/μg of the protein by LAL method.
Bio-Activity:	1. Measured in a cell proliferation assay using MC/9 2 mouse mast cells. The ED 50 for this effect is 2.8-11.3 pg/mL, corresponding to a specific activity of $8.85 \times 10^7 \sim 3.57 \times 10^8$ units/mg. 2. Measured in a cell proliferation assay using HT-2 mouse T cells. The ED 50 for this effect is 0.21-0.85 ng/mL, corresponding to a specific activity of $1.18 \times 10^6 \sim 4.76 \times 10^6$ units/mg.
Formulation:	Lyophilized from a 0.22 μm filtered solution of PBS, pH 7.4. Contact us for customized product form or formulation.
Reconstitution:	Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stabilizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

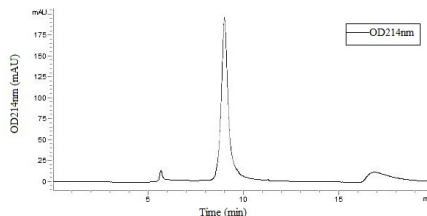
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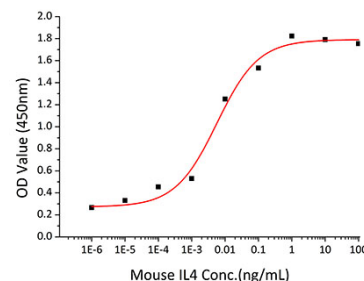
Web-site: <https://immunologicalsciences.com> - E-mail: info@immunologicalsciences.com



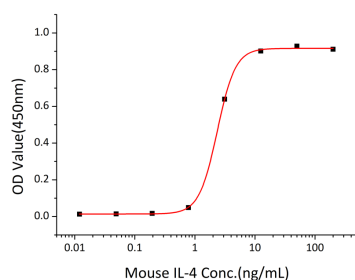
Recombinant Mouse IL-4 Protein is greater than 95% as determined by SEC-HPLC.



Recombinant Mouse IL-4 Protein is greater than 95% as determined by SEC-HPLC.



Recombinant Mouse IL-4 promote the proliferation of MC/9 2 mouse mast cells. The ED50 for this effect is 2.8-11.3 pg/mL, corresponding to a specific activity of $8.85 \times 10^7 \sim 3.57 \times 10^8$ units/mg.



Recombinant Mouse IL-4 Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.

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