


Mouse IL-10 Protein

Cat #: PRP1141

Size: 5 ug/20 ug/100 ug/1 mg

Product Information

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| | Product Name: Mouse IL-10 Protein | | |
| REF | Catalog Number: PRP1141 | LOT | Lot Number: Refer to product label |
| | Purity: > 98% as determined by SDS-PAGE | | |
|  | Storage: Store at -20°C | | Preparation method: <i>E. coli</i> |
| | Shipping: The product is shipped at ambient temperature. | | |

Background: IL-10 is an anti-inflammatory cytokine that belongs to the IL-10 family. It is produced by a variety of cell lines, including T-cells, macrophages, mast cells, and other cell types, while it is produced primarily by monocytes and to a lesser extent by lymphocytes. IL-10 is mainly expressed in monocytes and Type 2 T helper cells (TH2), mast cells, CD4+CD25+Foxp3+ regulatory T cells, and also in a certain subset of activated T cells and B cells. IL-10 has pleiotropic effects in immunoregulation and inflammation. It down-regulates the expression of Th1 cytokines, MHC class II Ags, and costimulatory molecules on macrophages. It also enhances B cell survival, proliferation, and antibody production. IL-10 can block NF-kappa B activity and is involved in the regulation of the JAK-STAT signaling pathway.

Sequence: Amino acid sequence derived from Mouse IL-10(P18893)(Ser19-Ser178)was expressed.

Protein length: The recombinant Mouse IL-10 consists of 161 amino acids and predicts a molecular mass of 18.9 kDa.

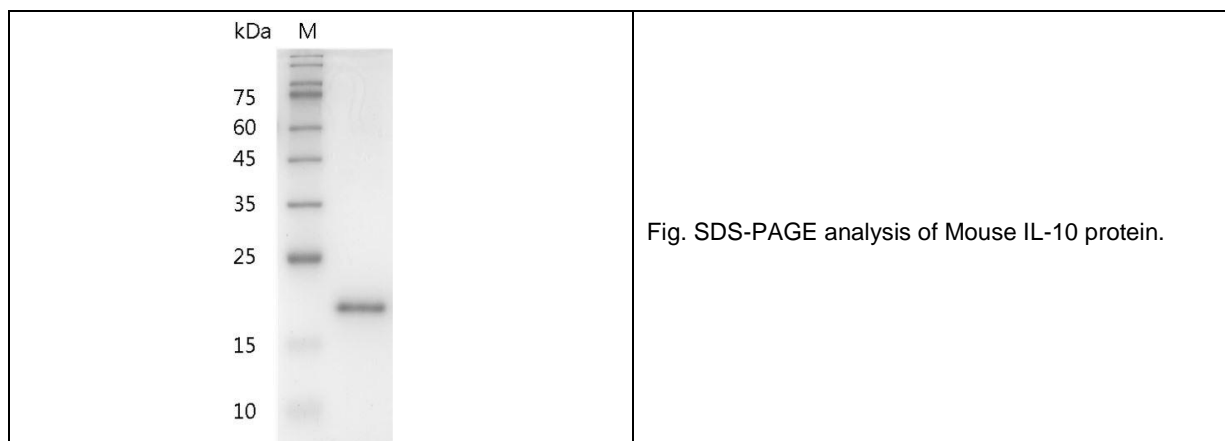
Biological Activity: Measure by its ability to induce MC/9-2 cells proliferation. The ED₅₀ for this effect is <1 ng/mL. The specific activity of recombinant mouse IL-10 is > 1 x 10⁶ IU/mg.

Endotoxin: < 0.1 EU per µg of the protein as determined by the LAL method.

Formulation: The protein was lyophilized from a 0.2 µm filtered solution containing 1X PBS, pH 7.4. If you have any concerns or special requirements, please confirm with us.

Storage Instructions: Lyophilized protein product should be stored desiccated below -18°C. Upon reconstitution, the protein should be stored at 4°C between 2-7 days and for future use below -18°C. For long term storage it is recommended to add a carrier protein (5% HSA , 10%FBS or 0.1%BSA). Please prevent freeze-thaw cycles.

Usage notes: Always centrifuge tubes before opening. It is recommended to reconstitute the lyophilized recombinant Mouse IL-10 protein to a concentration of 0.1-1 mg/mL in sterile ddH₂O, and keep at room temperature for at least 20 min to fully dissolve. Please avoid vortex vigorously.



Note: The product listed herein is for research use only and is not intended for use in human or clinical diagnosis. Suggested applications of our products are not recommendations to use our products in violation of any patent or as a license. We cannot be responsible for patent infringements or other violations that may occur with the use of this product.