Recombinant Mouse Il10 protein

Cat. No. Il10-17M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse Il10 protein was expressed in Escherichia coli.
Species	Mouse
Source	E.coli
ProteinLength	160
Description	Interleukin-10 (IL-10) is encoded by the IL10 gene and expressed in monocytes and Type 2 T helper cells (Th2). The biological activities of IL-10 are mediated by the IL-10 receptor complex, which is composed of the ligand-binding IL-10 Rα/R1 and the accessory IL-10 Rβ/R2 subunits. IL-10 is capable of inhibiting the synthesis of a number of cytokines, including IFN-gamma, IL-2, IL-3, TNF and GM-CSF produced by activated macrophages and by T helper cells. IL-10 is classified as a class 2 cytokine which consist of IL-10, IL-19, IL-20, IL-22, IL-24 and IL-26, several interferons and interferon-like molecules. Mature murine IL-10 shares 70 %-77 % amino acid sequence identity with human, bovine, porcine IL-10, but murine IL-10 does not act on human cells.
Form	Lyophilized from a 0.2μm filtered solution in PBS, pH 7.4.
Bio-activity	Fully biologically active when compared to standard. The ED50 as determined by a cell proliferation assay using murine MC/9-2 cells is less than 1 ng/ml, corresponding to a specific activity of > 1.0×10^6 IU/mg.

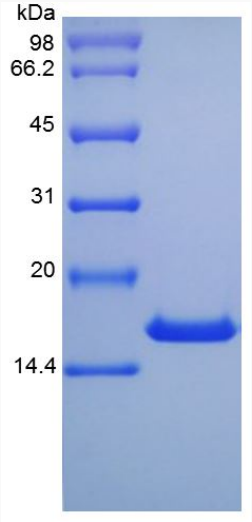
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Molecular Mass	Approximately 18.7 kDa, a single non-glycosylated polypeptide chain containing 160 amino acids.
AA Sequence	SRGQYSREDNNCTHFPVGQSHMLLELRTAFSQVKTFFQTKDQLDNILLTDSLMQDF KGYLGCQALSEMIQFYLVEVMPQAEKHGPEIKEHLNSLGEKLKTLRMRLRRCHRFLP CENKSKAVEQVKSDFNKLQDQGVYKAMNEFDIFINCIEAYMMIKMKS
Endotoxin	Less than 1 EU/μg of rMuIL-10 as determined by LAL method.
Purity	>97% by SDS-PAGE and HPLC analysis.
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt, -20 to -70 centigrade as supplied. 1 month, 2 to 8 centigrade under sterile conditions after reconstitution. 3 months, -20 to -70 centigrade under sterile conditions after reconstitution.
Reconstitution	We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in 10 mM HCl to a concentration of 0.1-1.0 mg/mL. Stock solutions should be apportioned into working aliquots and stored at ≤-20 centigrade. Further dilutions should be made in appropriate buffered solutions.

GENE INFORMATION

Gene Name	Il10
Official Symbol	Il10
Synonyms	IL10; interleukin 10; interleukin-10; cytokine synthesis inhibitory factor; CSIF; Il-10;
Gene ID	16153

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mRNA Refseq	NM_010548
Protein Refseq	NP_034678
UniProt ID	P18893
SDS-PAGE of Il10-17M	

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