Interleukin-10

Mouse, Recombinant (rmIL10)
Expressed in E. coli
Cat. No. CRP0821
Lot. No. (See product label)

PRODUCT INFORMATION

**Description:** Recombinant Mouse IL-10 produced in E. coli is a single, non-glycosylated polypeptide chain containing 161 amino acids and having a molecular mass of 18885 Dalton.

**Background:** Interleukin-10 is produced by murine T-cells following their stimulation by lectins. The main source for B-cell-derived Interleukin-10 in mice is Ly-1 B-cells that express CD5 and CD11. Murine keratinocytes also produce IL10.

**Amino-Acid Sequence:** The sequence of the first five N-terminal amino acids was determined and was found to be Met-Ser-Arg-Gly-Gln.

**M. W.:** 18,885 Da

**Recombinant:** Expressed in E. coli

**Purity:** >98% as determined by RP-HPLC, FPLC and SDS-PAGE.

**Formulation:** The protein was lyophilized with no additives.

**Specific Activity:** The ED50 as determined by the dose-dependent co-stimulation with murine IL-4 of MC-9 cells was found to be < 2ng/ml, corresponding to a Specific Activity of 5.0 x 10^5 IU/mg.

**Endotoxin:** Less than 0.1 ng/µg (IEU/µg) of mouse IL-10.

**Reconstitution:** It is recommended to reconstitute the lyophilized mouse IL-10 in sterile 18MΩ-cm H2O not less than 100µg/ml, which can then be further diluted to other aqueous solutions.

**Storage:** Lyophilized mouse IL-10 although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution Murine IL-10 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 (0.1% HSA or BSA). Aliquot to avoid repeated freeze-thaw cycles.

**REFERENCES**


GENE INFORMATION

**Gene Name:** Il10
**Gene Alias:** CSIF, II-10
**Gene Type:** protein coding
**mRNA Refseq:** NM_010548
**Protein Refseq:** NP_034678
**MIM:** 124092
**GeneID:** 16153
**Chromosome Location:** 1 69.9 cM

**Pathway:** Cytokine-cytokine receptor interaction; Jak-STAT signaling pathway; T cell receptor signaling pathway

**Function:** cytokine activity

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