**Interleukin-10**

Rat, Recombinant (rrIL10)
Expressed in *E. coli*
Cat. No. CRP08104
Lot. No. (See product label)

**PRODUCT INFORMATION**

*Description:* IL-10 is an immunosuppressive cytokine produced by a variety of mammalian cell types including macrophages, monocytes, T cells, B cells and keratinocytes. IL-10 inhibits the expression of proinflammatory cytokines such as IL-1 and TNF-α. Like IL-4, IL-10 enhances humoral immune responses and attenuates cell-mediated immune reactions. Human IL-10 active on murine cells, but murine IL-10 is inactive on human cells.

*Amino-Acid Sequence:* 160 aa, non-glycosylated

*M. W.*: 18.7 kDa

*Recombinant:* Expressed in *E. coli*

*Purity:* >95% by SDS-PAGE and HPLC analyses.

*Formulation:* Lyophilized from a 0.2µm filtered concentrated (1mg/ml) solution in PBS, pH 7.4.

*Specific Activity:* Fully biologically active when compared to standard. The ED50 as determined by the dose-dependent inhibition of antigen-specific T cell proliferation is less than 10ng/ml.

*Endotoxin:* Less than 1EU/µg of rrIL-10 as determined by LAL method.

*Reconstitution:* We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in sterile distilled water or aqueous buffer containing 0.1% BSA to a concentration of 0.1-1.0 mg/ml. Stock solutions should be aliquoted into working solutions and stored at <20°C. Further dilutions should be made in appropriate buffered solutions.

*Storage:* This lyophilized preparation is stable at 2-8°C, but should be kept at −20°C for long term storage, preferably desiccated. Upon reconstitution, the preparation is stable for up to one week at 2-8°C. For maximal stability, apportion the reconstituted preparation into working aliquots and store at −20°C to −70°C. Avoid repeated freeze/thaw cycles.

**GENE INFORMATION**

*Gene Name:* IL10

*Synonyms:* interleukin 10; IL10X; CSIF; IL-10; IL10A; MGC126450; MGC126451; TGIF; B-TGF; Cytokine synthesis inhibitory factor; Interleukin-10 precursor

*Gene Type:* protein coding

*mRNA Refseq:* NM_012854.2

*Protein Refseq:* NP_036986.2

*MIM:* 124092

*GenetID:* 25325

*UniProt ID:* P29456

*Chromosome Location:* 13q13

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

*Function:* cytokine activity; receptor binding; protein binding; transcriptional repressor activity

**REFERENCES**

