

## 32-12166: Mouse Interleukin IL-10

**Gene :** Il10  
**Gene ID :** 16153  
**Uniprot ID :** P18893  
**Alternative Name :** Cytokine synthesis inhibitory factor, CSIF

### Description

**Source:** Genetically modified E.coli.

**Predicted MW:** Noncovalent homodimer, 18.9 kDa (161 aa)

Interleukin 10 (IL-10) is an anti-inflammatory cytokine produced by macrophages and type 2 T helper (Th2) cells. IL-10 inhibits the production of pro-inflammatory cytokines such as interferon gamma (IFN $\gamma$ ), tumor necrosis factor alpha (TNF $\alpha$ ), interleukin 2 (IL-2), interleukin 3 (IL-3), interleukin 4 (IL-4), and granulocyte-macrophage colony-stimulating factor (GM-CSF), made by macrophages and regulatory T cells. IL-10 also suppresses antigen presentation on antigen presenting cells, and enhances the survival, proliferation, and antibody production of B cells. Mouse IL-10 is not active on human cells.

### Product Info

**Amount :** 10  $\mu$ g / 100  $\mu$ g  
**Purification :** Reducing and Non-Reducing SDS PAGE at  $\geq$  95%  
**Content :** Lyophilized from a sterile (0.2 micron) filtered aqueous solution containing 10 mM sodium phosphate, pH 7.5  
Sterile water at 0.1 mg/mL  
**Storage condition :** Store at -20°C  
**Amino Acid :** MSRGQYSRED NNCTHFPVGQ SHMLLELRTA FSQVKTFQT KDQLDNILLT DSLMQDFKGY LGCQALSEMI QFYLVEMPQ AEKHGPEIKE HLNSLGEKLL TLRMLRRCH RFLPCENKSK AVEQVKSDFN KLQDQGVYKA MNEFDIFINC IEAYMMIKMK S

### Application Note

**Endotoxin:** Less than 0.1 ng/ $\mu$ g (1 IEU/ $\mu$ g) as determined by LAL test.

Biological Activity was determined by MC/9 cell proliferation at  $\leq$  5 ng/mL;  $\geq$  2.0  $\times$  10<sup>5</sup> units/mg. Centrifuge vial before opening, Suspend the product by gently pipetting the above recommended solution down the sides of the vial. DO NOT VORTEX. Allow several minutes for complete reconstitution. For prolonged storage, dilute to working aliquots in a 0.1% BSA solution, store at -80°C and avoid repeat freeze thaws. Upon reconstitution, a small amount of visible precipitate can be expected. A 10% overfill has been added to the total material vial to compensate for this loss.

