



Recombinant Mouse IL-10

20150227BB



FOR RESEARCH ONLY! NOT FOR HUMAN USE!

Cat.-no.:	M10-020S
Size:	2 µg
Lot. No.:	According to product label

Scientific Background

Gene-ID (NCBI):	16153
Synonyms:	II10; CSIF; IL-10

Interleukin 10 (IL-10), initially designated cytokine synthesis inhibitory factor (CSIF), was originally identified as a product of mouse T helper (Th) 2 clones that inhibited cytokine production by Th1 clones. The human ortholog of mouse IL-10 was subsequently cloned by cross-hybridization. Human and mouse IL-10 are 81% identical at the nucleotide and amino acid level. IL-10 is the prototypic member of the IL-10 cytokine family, including IL-10, IL-19, IL-20, IL-22 (IL-TIF), IL-24 and IL-26. A number of viruses, including Epstein-Barr virus (EBV) and human cytomegalovirus (HCMV), also encode viral members of the IL-10 family. Human IL-10 has cross-species activity and is active on mouse cells. Mouse IL-10 is species-specific and does not act on human cells.

Sequence

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MSRGQYSRED NNCTHFPVQG SHMLLELRTA FSQVKTFEQT  
KDQLDNILLT DSLMQDFKGY LGCQALSEMI QFYLVVEVMPQ  
AEKHGPEIKE HLNSLGQKLK TLRMLRRCH RFLPCENKSK  
AVEQVKSDFN KLEDQGVYKA MNEFDIFINC IEAYMMIKMK S
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Database References

Protein RefSeq:	NP_034678
Uniprot ID:	P18893
mRNA RefSeq:	NM_010548

Product Specifications

Expressed in	E. coli
Purity	> 98% by SDS-PAGE & HPLC analyses
Endotoxin level	< 0.1 ng /µg of protein (<1EU/µg).
Formulation	lyophilized
Length (aa):	161
MW:	18.7 kDa

Biological Activity: The biological activity was measured by the dose-dependent co-stimulation (with IL-4) of the proliferation of murine MC/9 cells. The ED50 was found to be < 2 ng/ml (> 5 x 10⁵ units/mg).



AVOID REPEATED FREEZE AND THAW CYCLES!