

Recombinant human IL10, Active

Cat. No. IL10-1555H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human IL-10 is a glycosylated, non-disulphide linked homodimer with an apparent molecular mass of 17 kDa due to glycosylation. Glycosylation contributes to stability in cell growth media and other applications.
Species	Human
Source	Nicotiana Benthamiana
Description	Interleukin 10 (IL-10) is an anti-inflammatory cytokine initially characterized as a T helper (TH)2 specific cytokine, however, further investigations revealed that IL- 10 production was also associated with T regulatory cell responses. It is now known that almost all cells of both the innate and adaptive arms of the immune system can express IL-10, including dendritic cells (DC), macrophages, mast cells, natural killer cells (NK), eosinophil's, neutrophils, B cells, CD8C T cells, and TH1, TH2, and TH17 CD4C T cellsIL-10 functions by inhibiting pro-inflammatory cytokines made by macrophages and regulatory T cells including, IFN- γ , TNF- α , IL-2, and IL-3, IL-4, and GM-CSF. IL-10 is also known to suppress antigen presentation on antigen presenting cells. It also stimulates the growth of mast cells, is a cytotoxic T cell differentiation factor, and stimulates B cell differentiation.
Form	Recombinant human IL-10 is lyophilized from a Tris HCl 0.05M buffer at pH 7.4.
Molecular Mass	17 kDa
AA Sequence	HHHHHHHHSPGQGTQSENSCTHFPGNLPNMLRDLRDAFSRVKTFQMKDQLDNLL

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	LKESLLEDFKGYLGCGQALSE MIQFYLEEVMPPQAENQDPDIKAHVNSLGENLKTLLRLR LRRCHRFLPCENKSKAVEQVKNAFNKLQEKGIYKAMSE FDIFINYIEAYMTMKIRN
Endotoxin	< 0.04 EU/μg protein (LAL)
Purity	>97% by SDS-PAGE gel
Storage	This lyophilized preparation is stable at 2-8o C for short term, long storage it should be kept at -20oC. Reconstituted protein should be stored in working aliquots at -20°C. Repeated freezing and thawing is not recommended.
Reconstitution	Centrifuge vial before opening. Lyophilized protein should be reconstituted in water to a concentration of 100 ng/μl. Due to the protein nature, dimmers and multimers may be observed. Optimal concentration should be determined for specific application and cell lines.

GENE INFORMATION

Gene Name	IL10 interleukin 10 [Homo sapiens]
Official Symbol	IL10
Synonyms	IL10; interleukin 10; interleukin-10; CSIF; cytokine synthesis inhibitory factor; IL 10; IL10A; T cell growth inhibitory factor; TGIF; T-cell growth inhibitory factor; GVHDS; IL-10; MGC126450; MGC126451;
Gene ID	3586
mRNA Refseq	NM_000572
Protein Refseq	NP_000563

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MIM	124092
UniProt ID	P22301
Chromosome Location	1q31-q32
Pathway	African trypanosomiasis, organism-specific biosystem; African trypanosomiasis, conserved biosystem; Allograft rejection, organism-specific biosystem; Allograft rejection, conserved biosystem; Amoebiasis, organism-specific biosystem; Amoebiasis, conserved biosystem; Asthma, organism-specific biosystem;
Function	cytokine activity; growth factor activity; interleukin-10 receptor binding;

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