

Active Recombinant Human IL10 Protein, His-Tagged

Cat. No. IL10-02H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human IL-10 Protein, His-tagged, was expressed in Baculovirus
Species	Human
Source	Insect Cells
ProteinLength	166aa
Description	The protein encoded by this gene is a cytokine produced primarily by monocytes and to a lesser extent by lymphocytes. This cytokine has pleiotropic effects in immunoregulation and inflammation. It down-regulates the expression of Th1 cytokines, MHC class II Ags, and costimulatory molecules on macrophages. It also enhances B cell survival, proliferation, and antibody production. This cytokine can block NF-kappa B activity, and is involved in the regulation of the JAK-STAT signaling pathway. Knockout studies in mice suggested the function of this cytokine as an essential immunoregulator in the intestinal tract. Mutations in this gene are associated with an increased susceptibility to HIV-1 infection and rheumatoid arthritis.
Applications	SDS-PAGE, Bioactivity
Endotoxin	< 1 EU per 1ug of protein (determined by LAL method)
Bio-activity	Measured in a cell proliferation assay using MC/9 mouse mast cells. The ED50 range ≤ 5 ng/ml.

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Purity	> 95% by SDS-PAGE
Storage Buffer	Liquid in. Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol
Storage	Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.
Concentration	0.5mg/ml (determined by Bradford assay)
Molecular Mass	19.4 kDa
GENE INFORMATION	
Gene Name	IL10 interleukin 10 [Homo sapiens (human)]
Official Symbol	IL10
Synonyms	Interleukin-10, IL-10, Cytokine synthesis inhibitory factor, CSIF, IL10, GVHDS, IL10A, TGIF
Gene ID	3586
mRNA Refseq	NM_000572.3
Protein Refseq	NP_000563
UniProt ID	P22301
MIM	124092

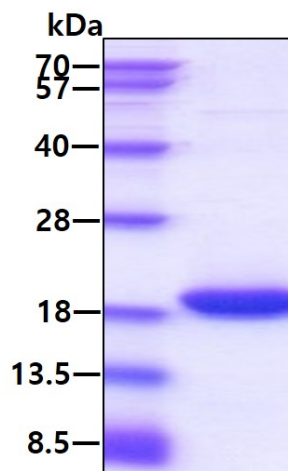
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Biological Activity

Human IL-10 stimulates cell proliferation of the MC/9 mouse mast cells. The ED50 range ≤ 5 ng/ml.

SDS-PAGE

3 μ g by SDS-PAGE under reducing condition and visualized by coomassie blue stain

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