# Recombinant Human Interleukin 10, His-tagged

**Cat. No.** IL10-530H **Lot. No.** (See product label)

## SPECIFICATION

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| **Product Overview** | Recombinant IL10 protein, fused to His-tag at N-terminus, was expressed in E. coli and was purified by conventional chromatography techniques. |
| **Species** | Human |
| **Source** | Human |
| **Description** | Interleukin-10 (IL 10) is also known as human cytokine synthesis inhibitory factor (CSIF) and inhibits the synthesis of pro-inflammatory cytokines like IFN-gamma, IL2, IL3, TNF and GM-CSF produced by activated macrophages and by helper T-cells. This protein has effects in immunoregulation and inflammation and down-regulates the expression of Th1 cytokines, MHC class II proteins, and costimulatory molecules on macrophages. |
| **Concentration** | 0.5 mg/ml |
| **Form** | Supplied as a liquid in 20mM Tris-HCl buffer, pH 8.0, containing 20% glycerol. |
| **Purity** | > 95% by SDS - PAGE |
| **Sequence** | 19-178 amino acids: MGSSHHHHHH SSGLVPRGSH MSPGQGTQSE NSCTHFPGNL PNMLRDLRDA FSRVKTFFQM KDQLDNLLLK ESLLEDFKGY LGCQALSEMI QFYLEEVMPQ AENQDPDIKA HVNSLGENLK TLRLRLRRCH RFLPCENKSK AVEQVKNAFN KLQEKGIYKA MSEFDIFINY IEAYMTMKIR N |

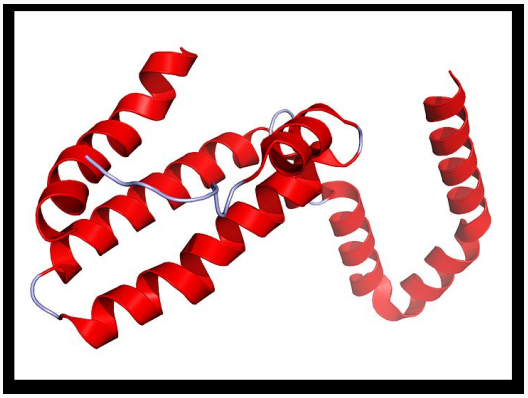
Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

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| **Molecular Mass** | 20.94 kDa (181 aa), confirmed by MALDI-TOF. |
| **Applications** | SDS-PAGE |
| **Endotoxin Levels** | < 1.0 EU per ug of protein (determined by LAL method) |
| **Storage** | Store at 4 deg C for short term storage (1/2 weeks). Aliquot and store at -20 deg C or - 70 deg C for long term storage. Avoid repeated freeze/thaw cycles. |

## GENE INFORMATION

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| **Gene Name** | IL10 interleukin 10 [ Homo sapiens ] |
| **Official Symbol** | IL10 |
| **Synonyms** | CSIF; IL10A; MGC1264 50; MGC126451; TGIF; B-TCGF; IL-10; Cytokine synthesis inhibitory factor; Interleukin-10 precursor; IL10; interleukin 10 |
| **Gene ID** | 3586 |
| **mRNA Refseq** | NM_000572 |
| **Protein Refseq** | NP_000563 |
| **MIM** | 124092 |
| **UniProt ID** | P22301 |
| **Chromosome Location** | 1q31-q32 |
| **Pathway** | Cytokine-cytokine receptor interaction; Jak-STAT signaling pathway; T cell receptor |

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| | signaling pathway |
| **Function** | cytokine activity; interleukin-10 receptor binding; protein binding |
| **PDB rendering basedon 2H24.** |  |

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