

Product datasheet for TP723714

IL10 (NM_000572) Human Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Purified recombinant protein of Human interleukin 10 (IL10)
Species:	Human
Expression Host:	E. coli
Expression cDNA Clone or AA Sequence:	Human IL-10, the region of Ser19-Asn178, from gene Accession# NM_000572
Tag:	Tag Free
Predicted MW:	18.6 kDa
Concentration:	Protein formulated and vialled at >50 ug/mL in specified buffer
Purity:	Purity is >98%, as determined by Coomassie stained SDS-PAGE.
Buffer:	10mM NaH ₂ PO ₄ , 150mM NaCl, pH7.2
Bioactivity:	The ED50 is 0.8 - 1.5 ng/ml corresponding to a specific activity of 1.25 - 0.66 x 10 ⁶ units/mg, determined by the dose dependent stimulation of MC/9 cell proliferation.
Endotoxin:	Less than 0.01 ng per ug protein as determined by the LAL method.
RefSeq:	NP_000563
Locus ID:	3586
RefSeq Size:	1629
Cytogenetics:	1q32.1
RefSeq ORF:	534
Synonyms:	CSIF; GVHDS; IL-10; IL10A; TGIF



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Summary:

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. [provided by RefSeq, May 2011]

Protein Families:

Druggable Genome, ES Cell Differentiation/IPS, Secreted Protein

Protein Pathways:

Allograft rejection, Asthma, Autoimmune thyroid disease, Cytokine-cytokine receptor interaction, Jak-STAT signaling pathway, Systemic lupus erythematosus, T cell receptor signaling pathway

Product images: