

HUMAN IL10 PROTEIN, HFC TAG

Cat.#: 11650

Product Name: Human IL10 Protein

Size: 10 µg, 50 µg and 100 µg

Synonyms: CSIF;GVHDS;IL-10;IL10A;TGIF

Target: IL10

UNIPROT ID: P22301

Description: Recombinant Human IL10 Protein with N-terminal human Fc tag

Background: 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 2020]

Species/Host: HEK293

Molecular Weight: The protein has a predicted molecular mass of 44.8 kDa after removal of the signal peptide. The apparent molecular mass of hFc-IL10 is approximately 35-55 kDa due to glycosylation.

Molecular Characterization: hFc(Glu99-Ala330) IL10(Ser19-Asn178)

Purity: The purity of the protein is greater than 95% as determined by SDS-PAGE and Coomassie blue staining.

Formulation & Reconstitution: Lyophilized from nanodisc solubilization buffer (20 mM Tris-HCl, 150 mM NaCl, pH 8.0). Normally 5% – 8% trehalose is added as protectants before lyophilization.

Storage & Shipping: Store at -20°C to -80°C for 12 months in lyophilized form. After reconstitution, if not intended for use within a month, aliquot and store at -80°C (Avoid repeated freezing and thawing). Lyophilized proteins are shipped at ambient temperature.



Figure 1. Human IL10 Protein, hFc Tag on SDS-PAGE under reducing condition.