

HUMAN IL15 PROTEIN, HFC TAG

Cat.#: 11653

Product Name: Human IL15 Protein

Size: 10 µg, 50 µg and 100 µg

Synonyms: IL-15; Interleukin 15; MGC9721

Target: IL15

UNIPROT ID: P40933

Description: Recombinant Human IL15 Protein with C-terminal human Fc tag

Background: The protein encoded by this gene is a cytokine that regulates T and natural killer cell activation and proliferation. This cytokine and interleukine 2 share many biological activities. They are found to bind common hematopoietin receptor subunits, and may compete for the same receptor, and thus negatively regulate each other's activity. The number of CD8 memory cells is shown to be controlled by a balance between this cytokine and IL2. This cytokine induces the activation of JAK kinases, as well as the phosphorylation and activation of transcription activators STAT3, STAT5, and STAT6. Studies of the mouse counterpart suggested that this cytokine may increase the expression of apoptosis inhibitor BCL2L1/BCL-x(L), possibly through the transcription activation activity of STAT6, and thus prevent apoptosis. Alternatively spliced transcript variants of this gene have been reported. [provided by RefSeq, Feb 2011]

Species/Host: HEK293

Molecular Weight: The protein has a predicted molecular mass of 38.9 kDa after removal of the signal peptide. The apparent molecular mass of IL15-hFc is approximately 35-55kDa due to glycosylation.

Molecular Characterization: IL15(Asn49-Ser162) hFc(Glu99-Ala330)

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 TNFRSF1B Protein, IL15 Tag on SDS-PAGE under reducing condition.