

HUMAN IL13 PROTEIN, HFC TAG

Cat.#: 11647

Product Name: Human IL13 Protein

Size: 10 µg, 50 µg and 100 µg

Synonyms: IL-13;NC30

Target: IL13

UNIPROT ID: P35225

Description: Recombinant human IL13 protein with C-terminal human Fc tag

Background: This gene encodes an immunoregulatory cytokine produced primarily by activated Th2 cells. This cytokine is involved in several stages of B-cell maturation and differentiation. It up-regulates CD23 and MHC class II expression, and promotes IgE isotype switching of B cells. This cytokine down-regulates macrophage activity, thereby inhibits the production of pro-inflammatory cytokines and chemokines. This cytokine is found to be critical to the pathogenesis of allergen-induced asthma but operates through mechanisms independent of IgE and eosinophils. This gene, IL3, IL5, IL4, and CSF2 form a cytokine gene cluster on chromosome 5q, with this gene particularly close to IL4. [provided by RefSeq, Jul 2008]

Species/Host: HEK293

Molecular Weight: The protein has a predicted molecular mass of 38.1 kDa after removal of the signal peptide. The apparent molecular mass of IL13-hFc is approximately 35-70 kDa due to glycosylation.

Molecular Characterization: IL13(Thr21-Leu132) 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.

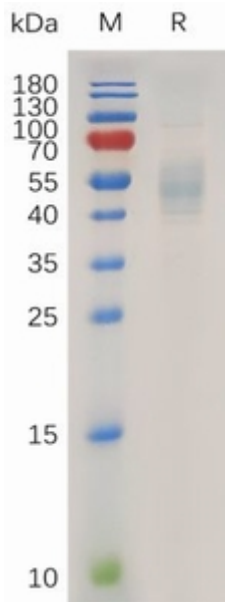


Figure 1. Human IL13 Protein, hFc Tag on SDS-PAGE under reducing condition.