

## HUMAN IL21 PROTEIN, HFC TAG

**Cat.#:** 11759

**Product Name:** Human IL21 Protein

**Size:** 10 µg, 50 µg and 100 µg

**Synonyms:** IL21; a11; interleukin-21

**Target:** IL21

**UNIPROT ID:** Q9HBE4

**Description:** Recombinant Human IL21 with C-terminal Human Fc tag

**Background:** This gene encodes a member of the common-gamma chain family of cytokines with immunoregulatory activity. The encoded protein plays a role in both the innate and adaptive immune responses by inducing the differentiation, proliferation and activity of multiple target cells including macrophages, natural killer cells, B cells and cytotoxic T cells. Dysregulation of this gene plays a role in multiple immune-mediated diseases including lupus, psoriasis and chronic inflammatory diseases. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene. [provided by RefSeq, Dec 2011]

**Species/Host:** HEK293

**Molecular Weight:** The protein has a predicted molecular mass of 41.6 kDa after removal of the signal peptide. The apparent molecular mass of IL21-hFc is approximately 35-55 kDa due to glycosylation.

**Molecular Characterization:** IL21(Gln30-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.

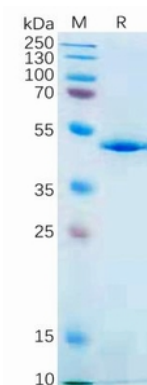


Figure 1. Human IL21 Protein, hFc Tag on SDS-PAGE under reducing condition.

### Human IL21, hFc tagged protein ELISA

0.2  $\mu$ g of Human IL21R, His tagged protein per well

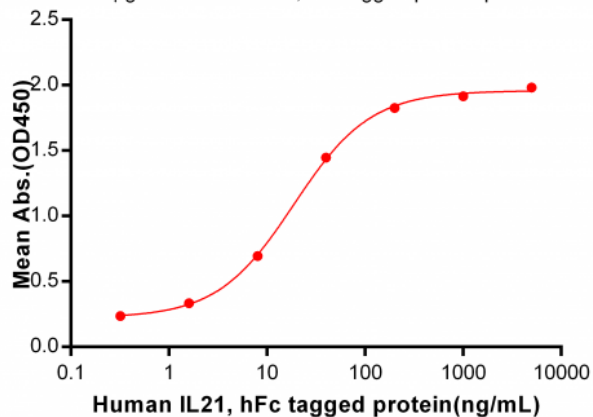


Figure 2. ELISA plate pre-coated by 2  $\mu$ g/ml (100  $\mu$ l/well) Human IL21R, His tagged protein 11384 can bind Human IL21, hFc Tagged protein (11759) in a linear range of 1.6-40 ng/ml.

### Human IL21, hFc Tagged protein ELISA

0.2  $\mu$ g of Human IL21, hFc tagged protein per well

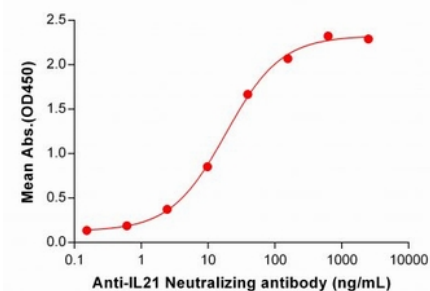


Figure 3. ELISA plate pre-coated by 2  $\mu$ g/ml (100  $\mu$ l/well) Human IL21 Protein, hFc Tag (11759) can bind Anti-IL21 Neutralizing antibody 28103 in a linear range of 2.44-156.25 ng/mL.