

## **Product Description**

Pioneering GTPase and Oncogene Product Development since 2010

## **HUMAN IL21 PROTEIN, HFC TAG**

Cat.#: 11759

**Product Name:** Human IL21 Protein **Size:** 10 μg, 50 μg and 100 μg **Synonyms:** IL21;a11;nterleukin-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.



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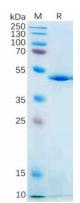


Figure 1. Human IL21 Protein, hFc Tag on SDS-PAGE under reducing condition.

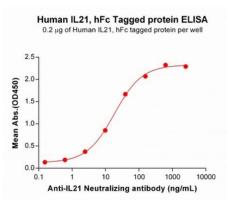


Figure 3. ELISA plate pre-coated by 2 µg/ml (100 µl/well) Human IL21 Protein, hFc Tag (11759) can bind Anti-IL21 Neutralizing antibody 28103 in a linear range of 2.44-156.25 ng/ml.

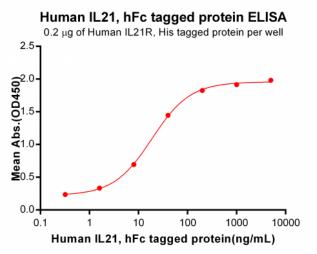


Figure 2. ELISA plate pre-coated by 2 µg/ml (100 µl/well) Human IL21R, His tagged protein 11384 can bind Human IL21, hFc Tagged protein (11759) in a linear range of 1.6-40 ng/ml.