

**HUMAN IL21 PROTEIN, HIS TAG****Cat.#:** 11356**Product Name:** Human IL21 Protein**Size:** 10 µg, 50 µg and 100 µg**Synonyms:** IL21;all;nterleukin-21**Target:** IL21**UNIPROT ID:** Q9HBE4**Description:** Recombinant Human IL21 with C-terminal 6xHis 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 16.3 kDa after removal of the signal peptide. The apparent molecular mass of IL21-His is approximately 15–25 kDa due to glycosylation.

**Molecular Characterization:** IL21(Gln30–Ser162) 6×His tag

**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, His Tag on SDS-PAGE under reducing condition.