

**HUMAN TSLP PROTEIN, HFC TAG****Cat.#:** 11433**Product Name:** Human TSLP Protein**Size:** 10 µg, 50 µg and 100 µg**Synonyms:** TSLP**Target:** TSLP**UNIPROT ID:** Q969D9**Description:** Recombinant Human TSLP with C-terminal human Fc tag

**Background:** This gene encodes a hemopoietic cytokine proposed to signal through a heterodimeric receptor complex composed of the thymic stromal lymphopoietin receptor and the IL-7R alpha chain. It mainly impacts myeloid cells and induces the release of T cell-attracting chemokines from monocytes and enhances the maturation of CD11c(+) dendritic cells. The protein promotes T helper type 2 (TH2) cell responses that are associated with immunity in various inflammatory diseases, including asthma, allergic inflammation and chronic obstructive pulmonary disease. The protein is therefore considered a potential therapeutic target for the treatment of such diseases. In addition, the shorter (predominant) isoform is an antimicrobial protein, displaying antibacterial and antifungal activity against *B. cereus*, *E. coli*, *E. faecalis*, *S. mitis*, *S. epidermidis*, and *C. albicans*. Alternative splicing of this gene results in multiple transcript variants. [provided by RefSeq, Jul 2020]

**Species/Host:** HEK293

**Molecular Weight:** The protein has a predicted molecular mass of 41.1 kDa after removal of the signal peptide. The apparent molecular mass of TSLP-hFc is approximately 55-70 kDa due to glycosylation.

**Molecular Characterization:** TSLP(Thr29-Gln159) 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.

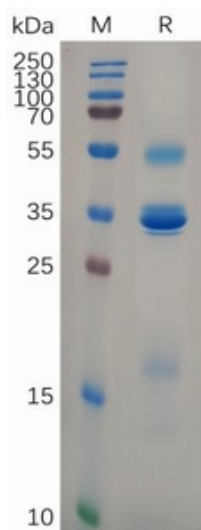


Figure 1. Human TSLP Protein, hFc Tag on SDS-PAGE under reducing condition.

## Human TSLP, hFc Tagged protein ELISA

0.5  $\mu$ g of Human TSLP, hFc tagged protein per well

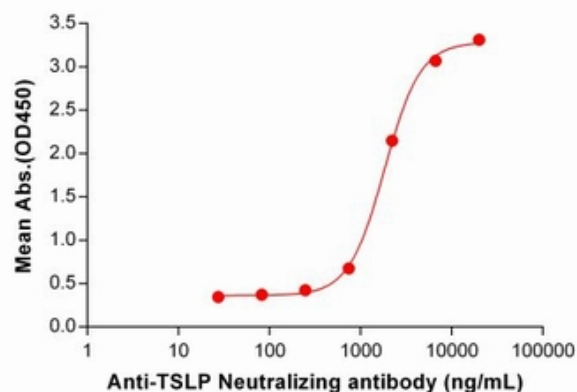


Figure 2. ELISA plate pre-coated by 5  $\mu$ g/ml (100  $\mu$ l/well) Human TSLP Protein, hFc Tag (11433) can bind Anti-TSLP Neutralizing antibody 28110 in a linear range of 741-6667 ng/mL.