Recombinant Human TSLP Protein, His&GST-tagged

Cat. No. TSLP-500H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human TSLP Protein (Met+Tyr29-Lys95) with N-His&GST tag was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	Met+Tyr29-Lys95
Description	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.
Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 37.5 kDa

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	Accurate Molecular Mass: 40 kDa
Purity	> 90%
Applications	Positive Control; Immunogen; SDS-PAGE; WB.
Stability	The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 centigrade for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8 centigrade for one month. Aliquot and store at -80 centigrade for 12 months.
Storage Buffer	PBS, pH7.4, containing 0.01% SKL, 1 mM DTT, 5% Trehalose and Proclin300.
Reconstitution	Reconstitute in sterile water to a concentration of 0.1-1.0 mg/mL. Do not vortex.

GENE INFORMATION

Gene Name	TSLP thymic stromal lymphopoietin [Homo sapiens (human)]
Official Symbol	TSLP
Synonyms	TSLP; thymic stromal lymphopoietin; thymic stroma-derived lymphopoietin
Gene ID	85480
mRNA Refseq	NM_033035
Protein Refseq	NP_149024

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MIM	607003
UniProt ID	Q969D9

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