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### **Recombinant human TSLP protein**

Catalog Number: ATGP2950

#### PRODUCT INFORMATION

#### **Expression system**

E.coli

#### **Domain**

29-159aa

#### UniProt No.

0969D9

#### **NCBI Accession No.**

NP 149024

#### **Alternative Names**

Thymic stromal lymphopoietin

#### PRODUCT SPECIFICATION

#### **Molecular Weight**

17.3 kDa (154aa)

#### Concentration

0.25mg/ml (determined by Bradford assay)

#### **Formulation**

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 10% glycerol

#### **Purity**

> 85% by SDS-PAGE

#### Tag

His-Tag

#### **Application**

SDS-PAGE, Denatured

#### **Storage Condition**

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

#### **BACKGROUND**

#### **Description**

TSLP is 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. TSLP is therefore considered a potential therapeutic target for the treatment of such diseases. Alternative splicing of



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this gene results in multiple transcript variants. Recombinant human TSLP protein, fused to His-tag at N-terminus, was expressed in E. coli.

#### **Amino acid Sequence**

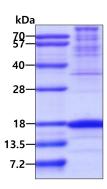
<MGSSHHHHHH SSGLVPRGSH MGS>YDFTNCD FEKIKAAYLS TISKDLITYM SGTKSTEFNN TVSCSNRPHC LTEIQSLTFN PTAGCASLAK EMFAMKTKAA LAIWCPGYSE TQINATQAMK KRRKRKVTTN KCLEQVSQLQ GLWRRFNRPL LKQQ

#### **General References**

Datta A., et al. (2013) J. Immunol. 191 (9), 4867-4879

#### **DATA**

#### **SDS-PAGE**



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

