

# PE-Labeled Human TSLP Protein, His Tag (Site-specific conjugation)

Catalog # TSP-HP2H4



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Surprise Inside!

## Synonym

TSLP

## Source

PE-Labeled Human TSLP Protein, His Tag(TSP-HP2H4) is expressed from human 293 cells (HEK293). It contains AA Tyr 29 - Gln 159 (Accession # [Q969D9-1](#)).

Predicted N-terminus: Tyr 29

## Molecular Characterization

TSLP(Tyr 29 - Gln 159)  
Q969D9-1 Poly-his

This protein carries a polyhistidine tag at the C-terminus.

The protein has a calculated MW of 18.6 kDa.

## Conjugate

PE

Excitation Wavelength: 488 nm / 561 nm

Emission Wavelength: 575 nm

## Formulation

Lyophilized from 0.22  $\mu$ m filtered solution in PBS, 0.5% BSA, pH7.4 with trehalose as protectant.

Contact us for customized product form or formulation.

## Reconstitution

Please see Certificate of Analysis for specific instructions.

*For best performance, we strongly recommend you to follow the reconstitution protocol provided in the CoA.*

## Storage

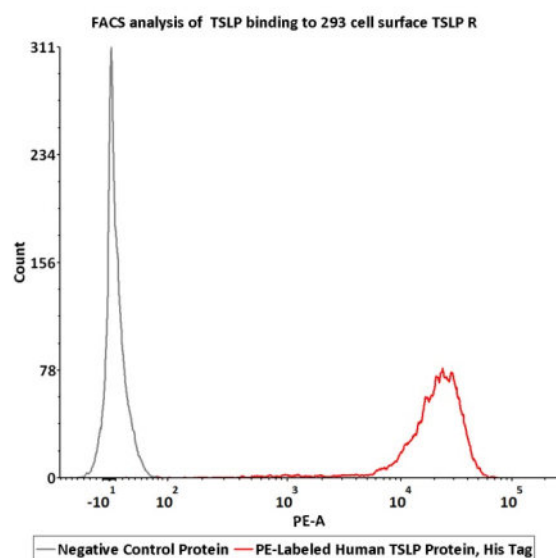
For long term storage, the product should be stored at lyophilized state at  $-20^{\circ}\text{C}$  or lower.

*Please protect from light and avoid repeated freeze-thaw cycles.*

This product is stable after storage at:

- $-20^{\circ}\text{C}$  to  $-70^{\circ}\text{C}$  for 12 months in lyophilized state;
- $-70^{\circ}\text{C}$  for 3 months under sterile conditions after reconstitution.

## Bioactivity-FACS



$5 \times 10^5$  of Human TSLP R (Luc) HEK293 Reporter Cells were stained with 100  $\mu$ L of 1:50 dilution (2  $\mu$ L stock solution in 100  $\mu$ L FACS buffer) of PE-Labeled Human TSLP Protein, His Tag (Cat. No. TSP-HP2H4) and negative control protein respectively. PE signal was used to evaluate the binding activity (QC tested).

## Background

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Thymic stromal lymphopoietin (TSLP) is an epithelial cell-derived cytokine involved in the pathology of inflammatory skin diseases, and is widely expressed by epithelial cells. Human TSLP cDNA encodes a 159 amino acid (aa) residue precursor protein with a 28 aa signal sequence (4, 5). Human TSLP has been shown to developing nondeletional central tolerance, amplifying epithelium-induced class switching, inducing atopic diseases and maintaining intestinal noninflammatory environment. Among diverse cells responding to Human TSLP, CD11c<sup>+</sup> dendritic cells are the most obviously characterized target cells.

### Clinical and Translational Updates

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