

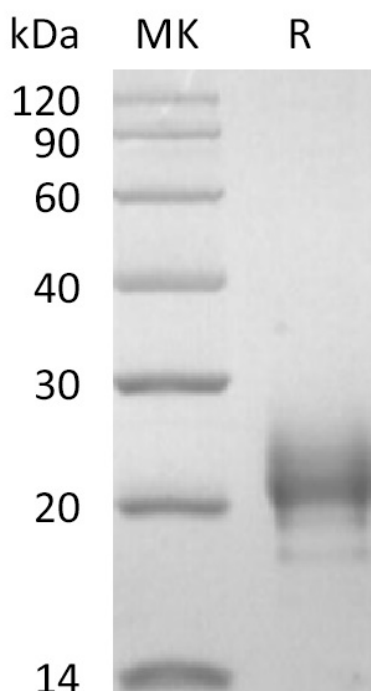
Product Name: Recombinant Human TSLP (R127A, R130A, C-10His)
Catalog #: PHH2215

Summary

Name	TSLP/Thymic Stromal Lymphopoietin (R127A, R130A)
Purity	Greater than 95% as determined by reducing SDS-PAGE
Endotoxin level	<1 EU/μg as determined by LAL test.
Construction	Recombinant Human Thymic stromal lymphopoietin is produced by our Mammalian expression system and the target gene encoding Tyr29-Gln159(R127A, R130A) is expressed with a 10His tag at the C-terminus.
Accession #	Q969D9
Host	Human Cells
Species	Human
Predicted Molecular Mass	16.1 KDa
Formulation	Lyophilized from a 0.2 μm filtered solution of 20mM Histidine-HCl, 4% Sucrose, 4% Mannitol, 0.02% Tween 80 (w/v), pH6.0.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature listed below.
Stability&Storage	Store at ≤-70°C, stable for 6 months after receipt. Store at ≤-70°C, stable for 3 months under sterile conditions after opening. Please minimize freeze-thaw cycles.
Reconstitution	Always centrifuge tubes before opening. Do not mix by vortex or pipetting. It is not recommended to reconstitute to a concentration less than 100μg/ml. Dissolve the lyophilized protein in distilled water. Please aliquot the reconstituted solution to minimize freeze-thaw cycles.

SDS-PAGE image

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Alternative Names

Thymic stromal lymphopoietin; TSLP

Background

Thymic stromal lymphopoietin (TSLP) is a novel member of the hemopoietic cytokine family that promotes the development of B cells and shares overlapping activity with IL-7. The human TSLP protein comprises a 28 amino acids (aa) signal sequence and 131 aa mature region. Human TSLP has two isoforms lftTSLP and sftTSLP produced by alternative splicing. lftTSLP is expressed in a number of tissues including heart, liver and prostate, and sftTSLP (63aa) is predominantly expressed in keratinocytes of oral mucosa, skin and in salivary glands. In aa sequence level, Human TSLP displays about 43% identity with mouse TSLP. TSLP is a cytokine that functions mainly on myeloid cells; it induces the release of T cell-attracting chemokines from monocytes and enhances the maturation of CD11c(+) dendritic cells. TSLP has proliferative effects on the myeloid cell line and may initiate asthma or atopic dermatitis responses by directly activating mast cells. TSLP signals cells via the interleukin-7 receptor- α chain (IL-7R α), shared with IL-7, together with the TSLP receptor (TSLPR) subunit. Recent studies indicate that TSLP and its receptor are novel therapeutic targets for rheumatoid arthritis, for increased intraarticular TSLP concentrations in patients has caused chemotaxis and activation of arthritogenic T cells.

Note

For Research Use Only, Not for Diagnostic Use.