

Active Recombinant Human TSLP Protein (132 aa)

Cat. No. TSLP-052T Lot. No. (See product label)

SPECIFICATION

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| Product Overview | Recombinant Human TSLP Protein without tag was expressed in E. coli. |
| Species | Human |
| Source | E.coli |
| ProteinLength | 132 |
| Description | <p>TSLP is a hemopoietic protein that is expressed in the heart, liver and prostate. TSLP overlaps biological activities with IL-7 and binds with the heterodimeric receptor complex consisting of the IL-7R alpha chain (IL-7Rα) and the TSLP-specific chain (TSLPR). Like IL-7, TSLP induces phosphorylation of STAT3 and STAT5, but uses kinases other than the JAKs for activation. TSLP prohibited apoptosis and stimulated growth of the human acute myeloid leukemia (AML)-derived cell line MUTZ3. It induces the release of T cell-attracting chemokines TARC and MDC from monocytes and activates CD11c(+) dendritic cells (DCs). TSLP activated DCs primed naive T cells to produce the proallergic cytokines (IL-4, IL-5, IL-13, TNFα) while down-regulating IL-10 and IFN-γ suggesting a role in initiating allergic inflammation.</p> |
| Form | Sterile Filtered White lyophilized (freeze-dried) powder. |
| Bio-activity | Fully biologically active when compared to standard. The ED50 as measured by its ability to induce proliferation of human IL-7R α and human TSLP R co-transfected mouse BaF3 cells is less than 0.3 ng/mL, corresponding to a Specific Activity of 3.3 x |

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| | 10 ⁶ IU/mg. |
| Molecular Mass | Approximately 15.0 KDa, a single non-glycosylated polypeptide chain containing 132 amino acids. |
| AA Sequence | MYDFTNCDFEKIKAAAYLSTISKDLITYMSGTKSTEFNNTVSCSNRPHCLTEIQSLTFNP TAGCASLAKEMFAMKTKAALAIWCPGYSETQINATQAMKKRRKRKVTTNKCLEQVS QLQGLWRRFNRPLLKQQ |
| Endotoxin | Less than 1 EU/mg of rHuTSLP as determined by LAL method. |
| Purity | >98% by SDS-PAGE and HPLC analyses. |
| Storage | This lyophilized preparation is stable at 2-8 centigrade, but should be kept at -20 centigrade for long term storage, preferably desiccated. Upon reconstitution, the preparation is stable for up to one week at 2-8 centigrade. For maximal stability, apportion the reconstituted preparation into working aliquots and store at -20 to -70 centigrade. Avoid repeated freeze/thaw cycles. |
| Storage Buffer | Lyophilized from a 0.2mm filtered concentrated solution in 20mM PB, pH 7.4, 150mM NaCl. |
| Reconstitution | We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in sterile distilled water or aqueous buffer containing 0.1% BSA to a concentration of 0.1-1.0 mg/mL. Stock solutions should be apportioned into working aliquots and stored at < -20 centigrade. Further dilutions should be made in appropriate buffered solutions. |

GENE INFORMATION

Gene Name [TSLP thymic stromal lymphopoietin \[Homo sapiens \]](#)

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|------------------------|-------------------------------------|
| Official Symbol | TSLP |
| Synonyms | TSLP; thymic stromal lymphopoietin; |
| Gene ID | 85480 |
| mRNA Refseq | NM_033035 |
| Protein Refseq | NP_149024 |
| MIM | 607003 |
| UniProt ID | Q969D9 |

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