

Active Recombinant Human TSLP Protein (132 aa)

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

SPECIFICATION

Product Overview	Recombinant Human TSLP Protein without tag was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	132
Description	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.
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 $\times$

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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	MYDFTNCDFEIKAAAYLSTISKDLITYMSGTKSTEFNNTVSCSNRPHCLTEIQSLTFNP 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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