

Recombinant Human TSLP

Cat. No. TSLP-8307H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	A DNA sequence encoding Human TSLP was expressed.
Species	Human
ProteinLength	29-159 a.a.
Description	Thymic stromal lymphopoietin (TSLP) is an IL-7-like epithelial cell-derived cytokine that supports differentiation and long-term growth of B cells. It is expressed in the heart, liver, testis and prostate. TSLP overlaps biological activities with IL-7 and binds with the heterodimeric receptor complex consisting of the IL-7R alpha chain (IL-7R α) 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. It activates DCs primed na $\vee$ e T cells to produce the proallergic cytokines (IL-4, IL-5, IL-13, TNF α) while down-regulating IL-10 and IFN- γ suggesting a role in initiating allergic inflammation. TSLP prohibits apoptosis and stimulates 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.
Form	This recombinant protein was 0.2 μ m filtered and lyophilized from modified Dulbecco's phosphate buffered saline (1X PBS) pH 7.2 – 7.3 with no calcium, magnesium, or preservatives.
Molecular Mass	The predicted molecular weight of Recombinant Human TSLP is Mr 15 kDa.

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AA Sequence	myd ftncdfekik aaylstiskd litymsgtks tefnntvscs nrphclteiq sltnptagc aslakemfam kkaalaiwc pgysqtina tqamkrrkr kvtnkcleq vsqllglwrr fnrpilkqq
Endotoxin	<1.0 eu/μg="" as="" determined="" by="" the="" la="">
Purity	>95% by SDS-PAGE and analyzed by silver stain.
Storage	The lyophilized protein should be stored desiccated at -20°C. The reconstituted protein can be stored for at least one week at 4°C. For long-term storage of the reconstituted protein, aliquot into working volumes and store at -20°C in a manual defrost freezer. Avoid Repeated Freeze Thaw Cycles.

GENE INFORMATION

Gene Name	TSLP thymic stromal lymphopoietin [Homo sapiens]
Official Symbol	TSLP
Synonyms	TSLP; thymic stromal lymphopoietin;
Gene ID	85480
mRNA Refseq	NM_033035
Protein Refseq	NP_149024
MIM	607003
UniProt ID	Q969D9
Chromosome	5q22.1

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Location	
Pathway	Cytokine-cytokine receptor interaction, organism-specific biosystem; Cytokine-cytokine receptor interaction, conserved biosystem; Jak-STAT signaling pathway, organism-specific biosystem; Jak-STAT signaling pathway, conserved biosystem;
Function	cytokine activity;

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