

TSLP Human E. coli

Product Data Sheet

Type: Recombinant	Cat. No.:	
Source: E. coli	RBG10334002	(2 µg)
Species: Human	RBG10334010	(10 µg)
Other names: Thymic Stromal Lymphopoietin	RBG10334100	(100 µg)

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-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. 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 (DCs). TSLP-activated DCs have been shown to prime naïve 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. Recombinant Human TSLP is a 15.0 kDa protein consisting of 132 amino acid residues.

Research topic

Apoptosis

Amino Acid Sequence

MYDFTNCDFE KIKAAAYLSTI SKDLITYMSG TKSTEFNNTV SCSNRPCLT EIQLTFNPT AGCASLAKEM FAMKTKAALA
IWCPGYSETQ INATQAMKKR RKRKVTTNKC LEQVSQLQGL WRRFNRPLLK QQ

Source

E. coli

Purity

98%

Biological Activity

Data not available.

Endotoxin

Endotoxin level is <0.1 ng/µg of protein (<1EU/µg).

Reconstitution

Centrifuge the vial prior to opening. Reconstitute in water to a concentration of 0.1-1.0 mg/ml. Do not vortex. For extended storage, it is recommended to further dilute in a buffer containing a carrier protein (example 0.1% BSA) and store in working aliquots at -20°C to -80°C.

Storage, Stability/Shelf Life

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