

Product Datasheet

Recombinant Human Thymic Stromal Lymphopoietin (rHuTSLP) (orb1495019)

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 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, TNF α) while down-regulating IL-10 and IFN- γ suggesting a role in

initiating allergic inflammation.

Endotoxins Less than 1EU/mg of rHuTSLP as determined by LAL method.

Preservatives Lyophilized from a 0.2mm filtered concentrated solution in 20mM PB, pH 7.4,

150mM NaCl.

Form/Appearance Lyophilized from a 0.2mm filtered concentrated solution in 20mM PB, pH 7.4,

150mM NaCl.

Storage This lyophilized preparation is stable at 2-8°C, but should be kept at -20°C for

long term storage, preferably desiccated. Upon reconstitution, the preparation is

stable for up to one week at 2-8°C. For maximal stability, apportion the reconstituted preparation into working aliquots and store at -20°C to -70°C.

Avoid repeated freeze/thaw cycles.

Note For research use only

Application notes 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°C. Further dilutions

should be made in appropriate buffered solutions.



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Protein Sequence MYDFTNCDFE KIKAAYLSTI SKDLITYMSG TKSTEFNNTV SCSNRPHCLT EIQSLTFNPT

AGCASLAKEM FAMKTKAALA IWCPGYSETQ INATQAMKKR RKRKVTTNKC L

EQVSQLQG L WRRFNRPL LK QQ

Purity > 98% by SDS-PAGE and HPLC analyses.

Source Escherichia coli.

MW Approximately 15.0 KDa, a single non-glycosylated polypeptide chain containing

132 amino acids.

Expiration Date 6 months from date of receipt.