

**TECHNICAL DATA SHEET**

# Recombinant Human TSLP (Carrier-free)

Catalog Number: 21-8497

**RPx-Pro™ Recombinant Protein**

**PRODUCT INFORMATION**

**CONTENTS**

Recombinant Human TSLP (Carrier-free)

**DESCRIPTION**

Thymic Stromal Lymphopoietin (TSLP) is a hemopoietic cytokine that shares some biological activities with IL-7. It is found in many tissues, but has highest expression in heart, liver, testis and prostate. TSLP signals through a heterodimeric receptor complex comprised of the IL-7Ralpha (CD127) and the TSLPR. It induces the release of T cell-attracting chemokines TARC and MDC from monocytes and activates CD11c(+) dendritic cells (DCs). TSLP promotes Th2 responses and has been associated with the development of allergic disorders in humans, such as asthma, atopic dermatitis, and food allergies.

**MOLECULAR MASS**

Recombinant human TSLP is a 15.0 kDa protein consisting of 132 amino acid residues.

**AMINO ACID SEQUENCE**

MYDFTNCDFE KIKAAYLSTI SKDLITYMSG TKSTEFNNTV SCSNRPHCLT EIQLTFNPTAGCASLAKEM FAMKTKAALA IWCPGYSETQ  
INATQAMKKR RKRKVTNNKC LEQVSQLQGLWRRFNRPLLK QQ

**SOURCE**

E. coli

**APPLICATIONS**

Bioassay

**PURITY**

98 %

**STORAGE**

-20°C

**PROTEIN CONTENT**

Content Verified by UV Spectroscopy and/or SDS-PAGE

**ENDOTOXIN LEVEL**

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

**AUTHENTICITY**

Verified by N-terminal and Mass Spectrometry analyses (when applicable).

**CROSS REACTIVITY**

**BIOACTIVITY**

Data not available at this time.

**RESEARCH AREAS**

Apoptosis; Inflammation

**RECONSTITUTION**

See Certificate of Analysis (COA) for lot specific reconstitution information.

**REFERENCES**

Reche PA, Soumelis V, Gorman DM, Clifford T, Liu Mr, Travis M, Zurawski SM, Johnston J, Liu YJ, Spits H, de Waal Malefyt R, Kastelein RA and Bazan JF. 2001. J Immunol. 167(1): 336-343. Liu YJ. 2006. J Exp Med. 203(2): 269-273. Pandey A, Ozaki K, Baumann H, Levin SD, Puel A, Farr AG, Ziegler SF, Leonard WJ and Lodish HF. 2000. Nat Immunol. 1(1): 59-64. Levin SD, Koelling RM, Friend SL, Isaksen DE, Ziegler SF, Perlmutter RM and Farr AG. 1999. J Immunol. 162(2): 677-683.

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