

## Product datasheet for **TP723796**

### **TSLP (NM\_033035) Human Recombinant Protein**

#### **Product data:**

<b>Product Type:</b>	Recombinant Proteins
<b>Description:</b>	Purified recombinant protein of Human thymic stromal lymphopoietin (TSLP), transcript variant 1
<b>Species:</b>	Human
<b>Expression Host:</b>	E. coli
<b>Expression cDNA Clone or AA Sequence:</b>	Human TSLP, the region of Met- Tyr29-Gln159, from gene accession# NM_033035.4
<b>Tag:</b>	Tag Free
<b>Predicted MW:</b>	15 kDa
<b>Concentration:</b>	lot specific
<b>Purity:</b>	>98%, as determined by Coomassie stained SDS-PAGE.
<b>Buffer:</b>	20 mM NaHPO <sub>4</sub> , pH 7.2, 0.15 M NaCl
<b>Bioactivity:</b>	The ED50 is 1 - 5 ng/ml, corresponding to a specific activity of 0.2 - 1 x 10 <sup>6</sup> units/mg, determined by the dose dependent stimulation of mouse BaF3-human IL-7a and human TSLPR cotransfectant cell proliferation.
<b>Endotoxin:</b>	Less than 0.01 ng per µg protein as determined by the LAL method
<b>Storage:</b>	Store at -80°C.
<b>Stability:</b>	Unopened vial can be stored between 2°C and 8°C for up to 2 weeks, at -20°C for up to 6 months, or at -70°C or below until the expiration date. Aliquots can be stored between 2°C and 8°C for up to one week and stored at -20°C or colder for up to 3 months. Avoid repeated freeze/thaw cycles.
<b>RefSeq:</b>	<a href="#">NP_149024</a>
<b>Locus ID:</b>	85480
<b>UniProt ID:</b>	<a href="#">Q969D9</a>
<b>RefSeq Size:</b>	2652
<b>Cytogenetics:</b>	5q22.1
<b>RefSeq ORF:</b>	477


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**Summary:**

This gene encodes a hemopoietic cytokine proposed to signal through a heterodimeric receptor complex composed of the thymic stromal lymphopoietin receptor and the IL-7R alpha chain. It mainly impacts myeloid cells and induces the release of T cell-attracting chemokines from monocytes and enhances the maturation of CD11c(+) dendritic cells. The protein promotes T helper type 2 (TH2) cell responses that are associated with immunity in various inflammatory diseases, including asthma, allergic inflammation and chronic obstructive pulmonary disease. The protein is therefore considered a potential therapeutic target for the treatment of such diseases. In addition, the shorter (predominant) isoform is an antimicrobial protein, displaying antibacterial and antifungal activity against *B. cereus*, *E. coli*, *E. faecalis*, *S. mitis*, *S. epidermidis*, and *C. albicans*. Alternative splicing of this gene results in multiple transcript variants. [provided by RefSeq, Jul 2020]

**Protein Families:**

Druggable Genome

**Protein Pathways:**

Cytokine-cytokine receptor interaction, Jak-STAT signaling pathway