

Product datasheet for **TP723796**

TSLP (NM_033035) Human Recombinant Protein

Product data:

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| Product Type: | Recombinant Proteins |
| Description: | Purified recombinant protein of Human thymic stromal lymphopoietin (TSLP), transcript variant 1 |
| Species: | Human |
| Expression Host: | E. coli |
| Expression cDNA Clone or AA Sequence: | Human TSLP,the rehion of Met- Tyr29-Gln159, from gene accession# NM_033035.4 |
| Tag: | Tag Free |
| Predicted MW: | 15 kDa |
| Concentration: | lot specific |
| Purity: | >98%, as determined by Coomassie stained SDS-PAGE. |
| Buffer: | 20 mM NaHPO ₄ , pH 7.2, 0.15 M NaCl |
| Bioactivity: | The ED50 is 1 - 5 ng/ml, corresponding to a specific activity of 0.2 - 1 x 10 ⁶ units/mg, determined by the dose dependent stimulation of mouse BaF3-human IL-7a and human TSLPR cotransfectant cell proliferation. |
| Endotoxin: | Less than 0.01 ng per µg protein as determined by the LAL method |
| Storage: | Store at -80°C. |
| Stability: | 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. |
| RefSeq: | NP_149024 |
| Locus ID: | 85480 |
| UniProt ID: | Q969D9 |
| RefSeq Size: | 2652 |
| Cytogenetics: | 5q22.1 |
| RefSeq ORF: | 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