

Thymic Stromal Lymphopoietin (TSLP) Active Protein | TSLP active protein

Active Thymic Stromal Lymphopoietin (TSLP)

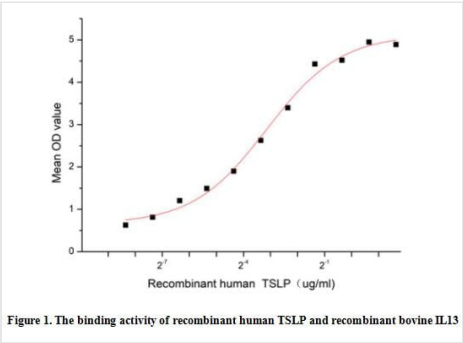
CATALOG # AAA161842	HOST E Coli	APPLICATIONS Activity Assay, Cell Culture
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PRODUCT SYNONYMS

Thymic Stromal Lymphopoietin (TSLP); Active Thymic Stromal Lymphopoietin (TSLP); Thymic Stromal Lymphopoietin4; TSLP active protein

PRODUCT SPECIFICATIONS

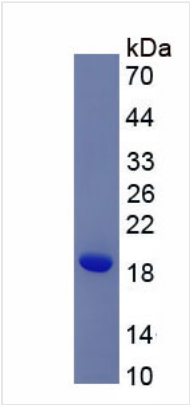
Host	E Coli
Purity/Purification	Greater than 95% by SDS-PAGE
Form/Format	Freeze-dried powder; PBS, pH7.4, containing 0.01% SKL, 1mM DTT, 5% Trehalose and Proclin300.
Sequence	Tyr29~Gln1 59
Applicable Applications for TSLP active protein	Activity Assay, Cell Culture
Species	Human
Expression System	Prokaryotic expression
Tag	N-terminal His Tag
Endotoxin Level	<1.0EU per 1ug (determined by the LAL method)
Isoelectric Point	9.6
Research Area	Immune molecule
Preparation and Storage	Store at 2-8 degree C for one month, -80 degree C for 12 months



Bioactivity

Thymic stromal lymphopoietin (TSLP) is a member of the IL-2 cytokine family and a distant paralog of IL-7. TSLP is a pleiotropic cytokine that acts on multiple cell lineages, including dendritic cells, T cells, B cells, neutrophils, mast cells, eosinophils and innate lymphoid cells, affecting their maturation, survival and recruitment. It is best known for its role in promoting type 2 immune responses such as in allergic diseases. Interleukin 13 (IL13) is a critical downstream element for TSLP-driven allergic inflammation. Thus a functional binding ELISA assay was conducted to detect the interaction of recombinant human TSLP and recombinant bovine IL13. Briefly, TSLP was diluted serially in PBS with 0.01% BSA (pH 7.4). Duplicate samples of 100 ul were then transferred to IL13-coated microtiter wells and incubated for 1h at 37 degree C. Wells were washed with PBST and incubated for 1h with anti-TSLP pAb, then aspirated and washed 3 times. After incubation with HRP labelled secondary antibody for 1h at 37 degree C, wells were aspirated and washed 5 times. With the addition of substrate solution, wells were incubated 15-25 minutes at 37 degree C. Finally, add 50 uL stop solution to the wells and read at 450/630 nm immediately. The binding activity of recombinant human TSLP and recombinant bovine IL13 was shown in Figure 1, the EC50 for this effect is 0.11 ug/mL.

SDS-PAGE
Figure. SDS-PAGE



ADDITIONAL INFORMATION

Product Categories/Family for TSLP active protein	Active proteins
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NCBI AND UNIPROT INFORMATION

NCBI GI #	190886449
NCBI GeneID	85480
NCBI Accession #	NP_612561.2
NCBI GenBank Nucleotide #	NM_138551.4
UniProt Accession #	Q969D9; Q8IW99
Molecular Weight	18,141 Da
NCBI Official Full Name	thymic stromal lymphopoietin isoform 2
NCBI Official Synonym Full Names	thymic stromal lymphopoietin
NCBI Official Symbol	TSLP
NCBI Protein Information	thymic stromal lymphopoietin
UniProt Protein Name	Thymic stromal lymphopoietin
UniProt Gene Name	TSLP
UniProt Entry Name	TSLP_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

