

Biotinylated Recombinant Human Thymic stromal lymphopoietin/TSLP (R127A, R130A) Protein

Catalog No.: RP02094B **Recombinant**

Sequence Information

Species	Gene ID	Swiss Prot
Human	85480	Q969D9

Tags

C-His&Avi

Synonyms

TSLP

Product Information

Source	Purification
HEK293 cells	> 95% by Tris-Bis PAGE;> 95% by SEC-HPLC

Endotoxin

< 1 EU/μg of the protein by LAL method.

Formulation

Lyophilized from a 0.22 μm filtered solution of PBS, pH 7.4.

Reconstitution

Centrifuge the tube before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stabilizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

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Background

Thymic Stromal Lymphopoietin (TSLP) was originally identified as an activity from the conditioned medium of a mouse thymic stromal cell line that promoted the development of B cells. Cytokine that induces the release of T-cell-attracting chemokines from monocytes and, in particular, enhances the maturation of CD11c dendritic cells. Can induce allergic inflammation by directly activating mast cells.

Basic Information

Description

Biotinylated Recombinant Human Thymic stromal lymphopoietin/TSLP (R127A, R130A) Protein is produced by Expi293 expression system. The target protein is expressed with sequence (Tyr29-Gln159 (R127A, R130A)) of Human TSLP (R127A, R130A) fused with a His tag and Avi tag at the C-terminal.

Bio-Activity

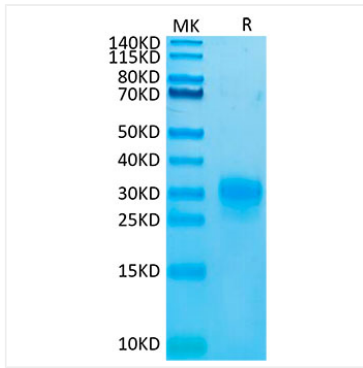
Storage

Store at -20°C. Store the lyophilized protein at -20°C to -80°C up to 1 year from the date of receipt.

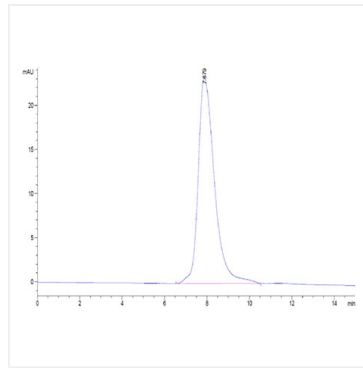
After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.

Avoid repeated freeze/thaw cycles.

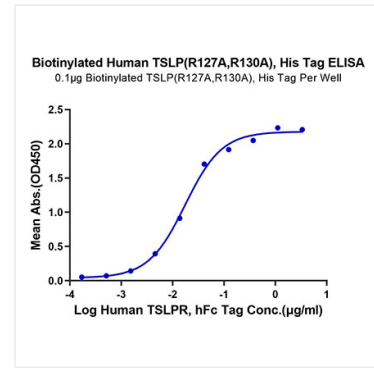
Validation Data



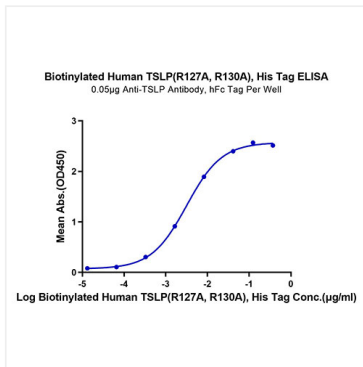
Biotinylated Human TSLP (R127A, R130A) on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.



The purity of Biotinylated Human TSLP (R127A, R130A) is greater than 95% as determined by SEC-HPLC.



Immobilized Biotinylated Human TSLP (R127A, R130A), His Tag at 1µg/ml (100µl/Well). Dose response curve for Human TSLPR, hFc Tag with the EC_{50} of 17.5ng/ml determined by ELISA.



Immobilized Anti-TSLP Antibody, hFc Tag at 0.5µg/ml (100µl/well) on the plate. Dose response curve for Biotinylated Human TSLP (R127A, R130A), His Tag with the EC_{50} of 3.2ng/ml determined by ELISA.