Recombinant TSLP protein (His tag)

Catalog Number	547893
Species	Human
Expression System	E. coli
Accession	Q969D9
Molecular Weight	Predictes a molecular mass of 16.58 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 17 kDa band.

Product Information

Sequence Region	29-159
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>88%, by SDS-PAGE with Coomassie Brilliant Blue staining.
Endotoxin	Not tested.
Activity	Not tested.
Stability	Samples are stable for up to twelve months from date of receipt at -70℃
Protein Construction	DNA encoding 29-159 aa (Q969D9) were fused with 6His tag.

Storage & Handling

Reconstitution	Reconstitute at 0.25 μg/μl in sterile water for short-term storage. Reconstitution with 50% glycerol solution is recommended for longer term storage (see Stability and Storage for more details). If a different concentration is needed for your purposes please adjust the reconstitution volume as required (please note: the ion concentration of the final solution will vary according to the volume used). Note: Centrifuge vial before opening. When reconstituting, gently pipet and wash down the sides of the vial to ensure full recovery of the protein into solution.
Storage	Store it under sterile conditions at -20℃ to -80℃. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
Shipping	In general, recombinant proteins are provided as lyophilized powder which are shipped at ambient temperature. Bulk packages of recombinant proteins are provided as frozen liquid. They are shipped out with blue ice unless customers require otherwise.

Description

Description	Recombinant Human Thymic Stromal Lymphopoietin (TSLP) Fragment (29-159) is a high-quality, soluble protein fragment designed for structural and biochemical research. This 131-amino acid fragment represents a stable and functionally relevant region of TSLP, enabling studies on cytokine signaling, immune cell activation, and allergic inflammation mechanisms. Thymic stromal lymphopoietin (TSLP), encoded by the TSLP gene in humans, is a cytokine with significant roles in immune regulation. Isoform 1 functions by inducing the release of T-cell-attracting chemokines from monocytes and promoting the maturation of CD11c+ dendritic cells. It also directly activates mast cells, contributing to allergic inflammation responses. Isoform 2 may serve as an antimicrobial peptide in oral and skin environments. TSLP is naturally secreted into the extracellular space, facilitating its role in intercellular communication. The recombinant fragment (29-159) encompasses key functional domains, providing researchers with a reliable tool to investigate TSLP's mechanisms in immune and inflammatory processes.