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Human^{His6} Thymic Stromal Lymphopoietin (h^{His6}TSLP)

For Research Use Only. Not for Use in Diagnostic Procedures.

MW (kDa):	UniProt ID:	Entrez-Gene Id:
31	#Q969D9	85480

Background

TSLP is an IL-7-like cytokine that plays a key role in promoting TH2-type immune responses (1). Epithelial cells in the skin, lung, and gut are the predominant producers of TSLP (1). A number of immune cell types are responsive to TSLP including dendritic cells, lymphocytes, mast cells, and basophils, among others (1). Consistent with its role as a promoter of TH2-type immune responses, TSLP is a crucial component of the anti-helminth immune response (1). Moreover, TSLP may promote tumor progression by inducing TH2-type inflammation (2-4). TSLP signals through IL-7Ra/TSLPR heterodimers, activating Jak1/2 and Stat5 pathways (5,6).

Endotoxin

Less than 0.01 ng endotoxin/1 µg h^{His6}TSLP.

Purity

>98% as determined by SDS-PAGE of 6 µg reduced (+) and non-reduced (-) recombinant h^{His6}TSLP. All lots are greater than 98% pure.

Source / Purification

Recombinant human^{His6}TSLP (h^{His6}TSLP) Tyr29-Gln159 (Accession #NP_149024) was expressed in human 293 cells at Cell Signaling Technology. Recombinant h^{His6}TSLP contains 2 point mutations to eliminate potential furin cleavage sites (R127A and R130S).

Bioactivity

The bioactivity of recombinant h^{His6}TSLP was determined by its ability to induce TARC production by PBMC. The ED₅₀ of each lot is between 50-200 pg/ml.

Background References

1. Ziegler, S.F. and Artis, D. (2010) *Nat Immunol* 11, 289-93.
2. Pedroza-Gonzalez, A. et al. (2011) *J Exp Med* 208, 479-90.
3. De Monte, L. et al. (2011) *J Exp Med* 208, 469-78.
4. Olkhanud, P.B. et al. (2011) *J Immunol* 186, 5656-62.
5. Rochman, Y. et al. (2010) *Proc Natl Acad Sci U S A* 107, 19455-60.
6. Brown, V.I. et al. (2007) *Cancer Res* 67, 9963-70.

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