

32-1813: TSLP, His Recombinant Protein

Alternative Name : Thymic Stromal Lymphopoietin, TSLP.

Description

Source : Escherichia Coli. TSLP Human Recombinant produced in E.Coli is a single, non-glycosylated, polypeptide chain (Tyr29-Gln159) containing 141 amino acids including a 10 aa His tag at N-terminus. The total calculated molecular mass is 16.2kDa. TSLP protein is a hemopoietic cytokine which signals throughout a heterodimeric receptor complex composed of the thymic stromal lymphopoietin receptor & the Interleukin-7 receptor alpha chain. TSLP impacts myeloid cells thus induces the discharge of T cell-attracting chemokines from monocytes & increases the growth of CD11c(+) dendritic cells. TSLP is mainly expressed in the heart, liver and prostate. TSLP is related in its biological activities with IL-7 and binds with the heterodimeric receptor complex consisting of the Interleukin-7 receptor alpha chain & the TSLPR. Similar to IL-7, TSLP enhances phosphorylation of STAT3 and STAT5, though uses kinases excluding JAKs for its activation. TSLP induces the release of T cell-attracting chemokines such as TARC & MDC from monocytes & triggers CD11c(+) dendritic cells. TSLP activated dendritic cells primes naive T cells to manufacture pro-allergic cytokines such as Interleukin-4, Interleukin-5, Interleukin-13 and TNF-alpha whereas down-regulating Interleukin-10 and IFN-gamma play a role in the initiation of allergic inflammation.

Product Info

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| Amount : | 10 µg |
| Purification : | Greater than 95.0% as determined by SDS-PAGE. |
| Content : | TSLP was filtered (0.4µm) and lyophilized in phosphate buffered saline. |
| Storage condition : | Store lyophilized protein at -20°C. Aliquot the product after reconstitution to avoid repeated freezing/thawing cycles. Reconstituted protein can be stored at 4°C for a limited period of time. |
| Amino Acid : | MKHHHHHHASYDFTNCDFEK IKAAYLSTIS KDLITYMSGT KSTEFNNTVS CSNRPHCLTE IQSLTFNPTA GCASLAKEMF AMKTKAALAI WCPGYSETQI NATQAMKKRR KRKVTTNKCL EQVSQLQLGLW RRFNRPLLKQ Q. |

Application Note

It is recommended to add 200µl of deionized water to prepare a working stock solution of approximately 0.5mg/ml and let the lyophilized pellet dissolve completely. TSLP is not sterile! Please filter the product by an appropriate sterile filter before using it in the cell culture.

