
Product Data Sheet

Product Name: TSLP Human, His
 Cat. No.: GP21019
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped at Room temp.
Synonyms	Thymic Stromal Lymphopoietin; TSLP.		
Amino Acid Sequence	MKHHHHHHASYDFTNCDFEK IKAAYLSTIS KDLITYMSGT KSTEFNNTVS CSNRPHCLTE IQSLTFNPTA GCASLAKEMF AMKTKAALAI WCPGYSETQI NATQAMKKRR KRKVTTNKCL EQVSQLQGLW RRFNRPLLKQ Q.		
Solubility	It is recommended to add 200?l 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.		
Formulation	TSLP was filtered (0.4µm) and lyophilized in phosphate buffered saline.		

Introduction

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.

Caution: Product has not been fully validated for medical applications. For research use only.

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Stability

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.

Background

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.

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