



Recombinant Human TSLP
(Thymic Stromal Lymphopoietin)

Catalog Number: 100-165
Accession Number: Q969D9

Specifications and Uses:

Alternate Names: None

Description:

Thymic Stromal Lymphopoietin (TSLP) is a hematopoietic cytokine, produced in several tissues including heart, liver and prostate. TSLP sends signals through a heterodimeric receptor complex, containing the TSLP-R and the IL-7R α chain to induce the release of T cell-attracting chemokines from monocytes. Recombinant human TSLP is a non-glycosylated protein, containing 132 amino acids, with a molecular weight of 15 kDa.

Source: *E.coli*

Physical Appearance: Sterile filtered white lyophilized (freeze-dried) powder.

Formulation and Stability:

Recombinant human TSLP is lyophilized from 10 mM Na₂PO₄, pH 7.5.

Lyophilized product is very stable at -20°C. Reconstituted material should be aliquoted and frozen at -20°C. It is recommended that a carrier protein (0.1% HSA or BSA) is added for long term storage.

Reconstitution:

Centrifuge vial before opening. When reconstituting the product, gently pipet and wash down the sides of the vial to ensure full recovery of the protein into solution. It is recommended to reconstitute the lyophilized product with sterile water at a concentration of 0.1 mg/mL, which can be further diluted into other aqueous solutions.

Protein Content and Purity (typically $\geq 97\%$) determined by:

HPLC, Reducing and Non-reducing SDS-PAGE, UV spectroscopy at 280 nm

Endotoxin Level:

Measured by kinetic LAL analysis and is typically ≤ 1 EU/ μ g protein.

Biological Activity:

The activity is determined by a cell proliferation assay using BaF3 cells transiently expressing human IL-7R α and human TSLP-R and is typically 0.05-0.3 ng/mL.

AA Sequence:

MYDFTNCDFE KIKAAYLSTI SKDLITYMSG TKSTEFNNTV SCSNRPHCLT EIQLTFNPT AGCASLAKEM
FAMKTKAALA IWCPGYSETQ INATQAMKKR RKRKVTTNKC LEQVSQQLQGL WRRFNRPLL KQQ

THIS PRODUCT IS FOR RESEARCH USE ONLY AND IS NOT FOR USE IN HUMANS!

Gentaaur Molecular Products
Voortstraat 49
1910 Kampenhout, Belgium