

RPES8458

Product Information

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| Product SKU: RPES8458 | Expression Host: Mammalian | Size: 20µg |
| Tag: C-Fc | Reactivity: Mouse | Accession: Q9JIE6 |

Additional Information

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| Calculated MW: 40.2 kDa | Observed MW: 45 kDa |
| Sequence: Met1-Glu140 | |

Protein Information

Background: Thymic Stromal Lymphopoietin (TSLP) was originally identified as an activity from the conditioned medium of a Mouse thymic stromal cell line that promoted the development of B cells. The activities of Mouse TSLP overlap with , but are distinct from , those of Mouse IL-7. Both Mouse TSLP and IL-7 can co-stimulate growth of thymocytes and mature T cells , and support B lymphopoiesis in long-term cultures of fetal liver cells and bone-marrow cells. Whereas Mouse IL-7 facilitates the development of B220+/IgM-pre-B cells , Mouse TSLP promotes the development B220+/IgM+ B cells. Human TSLP was reported to preferentially stimulate myeloid cells, inducing the release of T cell-attracting chemokines from monocytes and enhancing the maturation of CD11c+ dendritic cells. Mouse TSLP cDNA encodes a 140 amino acid (aa) residue precursor protein with a 19 aa signal sequence. Within the mature region , there are three potential N-glycosylation sites and 7 cysteine residues. Mouse TSLP shares approximately 43% aa sequence identity with Human TSLP. The gene for Mouse TSLP has been localized to chromosome 18. By Northern and RT-PCR analysis , Mouse TSLP expression has been detected in spleen , thymus , kidney , lung and bone marrow. TSLP is proposed to signal through a heterodimeric receptor complex that consists of IL-7 R alpha and the TSLP R , a new member of the hemopoietin receptor family most closely related to R gamma c.

Synonyms: Thymic stroma-derived lymphopoietin, Thymic stromal lymphopoietin, Tslp

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| Endotoxin: | < 1.0 EU/mg of the protein as determined by the LAL method |
| Formulation: | Lyophilized from a 0.2 µm filtered solution in PBS with 5% Trehalose and 5% Mannitol. |
| Purity: | > 90% as determined by reducing SDS-PAGE. |
| Bio-Activity: | Not validated for activity |
| Storage: | Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months. |