TSLP Protein, Cynomolgus (HEK293, His)

Cat. No.:	HY-P78046
Synonyms:	thymic stromal lymphopoietin; TSLP
Species:	Cynomolgus
Source:	HEK293
Accession:	A0A7N9CAT7 (Y29-Q159)
Gene ID:	102119254
Molecular Weight:	23-26 kDa

PROPERTIES

Biological Activity	Immobilized Cynomolgus TSLP, His Tag at 0.5μg/ml (100μl/Well) on the plate. Dose response curve for Anti-TSLP Antibody, hFc Tag with the EC_{50} of 95.0ng/ml determined by ELISA.
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.22 μm filtered solution of PBS, pH 7.4. Normally 5% trehalose is added as protectant before lyophilization.
Endotoxin Level	<1 EU/μg, determined by LAL method.
Reconsititution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH_2O.
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	The TSLP (thymic stromal lymphopoietin) protein is a cytokine with diverse immunomodulatory functions. It induces the release of T-cell-attracting chemokines from monocytes and promotes the maturation of CD11c(+) dendritic cells, playing a crucial role in the regulation of immune responses. TSLP is known to have implications in allergic inflammation by directly activating mast cells, contributing to the complex network of allergic responses. TSLP exerts its effects by interacting with a receptor complex composed of CRLF2 and IL7R, and the binding of TSLP to CRLF2/TSLPR is a mechanistic prerequisite for recruiting IL7R to form the high-affinity ternary complex. These interactions highlight the intricate molecular mechanisms through which TSLP influences immune cell behavior, emphasizing its role in immune system regulation and allergic responses.

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

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