

## IL-25/IL-17E Protein, Human (Biotinylated, HEK293, His-Avi)

Cat. No.:	HY-P701012
Synonyms:	IL-25; IL-17E; IL17E; Interleukin-17E; interleukin-25
Species:	Human
Source:	HEK293
Accession:	Q9H293-1 (Y33-G177)
Gene ID:	64806
Molecular Weight:	25-35 kDa

### PROPERTIES

Biological Activity	Immobilized Human IL-17RB, His Tag at 5µg/ml (100µl/well) on the plate. Dose response curve for Biotinylated Human IL-25, His Tag with the EC <sub>50</sub> of 58.5ng/ml determined by ELISA.
Appearance	Solution.
Formulation	Supplied as a 0.22µm filtered solution of PBS, pH 7.4.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	N/A.
Storage & Stability	Stored at -80°C for 1 year. It is stable at -20°C for 3 months after opening. It is recommended to freeze aliquots at -80°C for extended storage. Avoid repeated freeze-thaw cycles.
Shipping	Shipping with dry ice.

### DESCRIPTION

Background	The cytokine IL-25/IL-17E, produced by various cells such as eosinophils, T-helper type 2 (Th2) cells, or epithelial cells, plays a crucial role in the internal safety of adaptive immune responses by regulating cytokine production. This cytokine promotes and augments T-helper type 2 responses both locally and systemically, acting through its receptor composed of IL17RA and IL17RB for signal transduction. Upon binding, IL-25 activates the JAK2-STAT5A pathway, leading to the secretion of type-2-associated cytokines, including IL4, IL9, and IL13. Additionally, it induces the release of IL8 and IL6 from eosinophils by simultaneously activating the MAPK and NF-kappa-B pathways. Notably, IL-25 inhibits the differentiation of T-helper (Th17) cells through the production of IL4, IL5, and IL13, contributing to its regulatory role in immune responses.
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**Caution: Product has not been fully validated for medical applications. For research use only.**

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