

Animal-Free IL-25/IL-17E Protein, Human (His)

Cat. No.:	HY-P700116AF
Synonyms:	Interleukin-25; IL-25; Interleukin-17E; IL-17E
Species:	Human
Source:	E. coli
Accession:	Q9H293 (Y33-G177)
Gene ID:	64806
Molecular Weight:	Approximately 17.68 kDa

PROPERTIES

AA Sequence	<p> M Y S H W P S C C P S K G Q D T S E E L L R W S T V P V P P L E P A R P N R H P E S C R A S E D G P L N S R A I S P W R Y E L D R D L N R L P Q D L Y H A R C L C P H C V S L Q T G S H M D P R G N S E L L Y H N Q T V F Y R R P C H G E K G T H K G Y C L E R R L Y R V S L A C V C V R P R V M G </p>
Biological Activity	<p>1. Measure by its ability to induce IL-8 secretion in human PBMCs. The ED₅₀ for this effect is <5 ng/mL.</p> <p>2. Measure by its ability to induce CXCL1 secretion in HT29 cells. The ED₅₀ for this effect is <1 ng/mL</p>
Appearance	Lyophilized powder.
Formulation	Lyophilized from a solution containing 1X PBS, pH 8.0.
Endotoxin Level	<0.1 EU per 1 µg of the protein by the LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH ₂ O.
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	<p>The cytokine Animal-Free 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, Animal-Free 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, Animal-</p>
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Free 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.

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

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