

# **Screening Libraries**

**Proteins** 

**Product** Data Sheet

# 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

Q9H293 (Y33-G177) Accession:

Gene ID: 64806

Molecular Weight: Approximately 17.68 kDa

# **PROPERTIES**

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MYSHWPSCCP SKGQDTSEEL LRWSTVPVPP LEPARPNRHP ESCRASEDGP LNSRAISPWR YELDRDLNRL PQDLYHARCL CPHCVSLQTG SHMDPRGNSE LLYHNQTVFY RRPCHGEKGT

HKGYCLERRL YRVSLACVCV RPRVMG

**Biological Activity** 

1. Measure by its ability to induce IL-8 secretion in human PBMCs. The ED<sub>50</sub> for this effect is <5 ng/mL.

2. Measure by its ability to induce CXCL1 secretion in HT29 cells. The ED<sub>50</sub> for this effect is <1 ng/mL

**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.

Reconsititution It is not recommended to reconstitute to a concentration less than 100  $\mu g/mL$  in ddH<sub>2</sub>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.

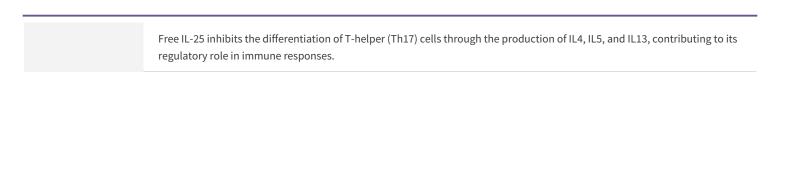
Shipping Room temperature in continental US; may vary elsewhere.

# **DESCRIPTION**

Background

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-

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

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