

## Recombinant Human Interleukin 25

Cat. No. IL25-140H Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant Human Interleukin 25 expressed in <i>E. Coli</i> as a homodimeric protein with a total weight of 33.8kDa containing two 146 amino acid residue chains.
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>Description</b>	Interleukin 17 (IL-17/IL-17A) is the founding member of the newly emerging family of proteins, termed the IL-17 family. This family consists of IL-17/IL17A, IL-17B, IL-17C, IL-17D, IL-17E and IL-17F that share a conserved C-terminal region but different N-terminal segments. These homologous proteins are secreted as a disulfide-linked homodimers but have significantly different biological roles. At low levels IL-17E can be found in several tissues including the brain, kidney, lung, prostate, testis, spinal cord and trachea. IL-17E has been shown to stimulate IL-8 and induces activation of NF-κB.
<b>Amino Acid Sequence</b>	MYSHWPSCCP SKGQDTSEEL LRWSTVPVPP LEPARPNRHP ESCRASEDGP LNSRAISPWR YELDRDLNRL PQDLYHARCL CPHCVSLQTG SHMDPRGNSE LLYHNQTVFY RRPCHGEKGT HKGYCLERRL YRVSLACVCV RPRVMG
<b>Supplied</b>	Sterile filtered solution is lyophilized from 10mM Acetic Acid with no additives.
<b>Purity</b>	>98% by SDS-Page and HPLC analysis. Endotoxin level is less than 0.1ng per ug (1EU/ug) of IL- 17E.

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**Reconstitution** Lyophilized IL-17E should be reconstituted in 10mM Acetic acid to a concentration of 0.1-1mg/ml. Allow to set at least 30 minutes, rotate or vortex mix. Centrifuge for 1-2 minutes at 1000rpm to concentrate solution in bottom of vial. This solution can be diluted into other buffered solutions or stored at 4°C for up to 1 week or at -20°C for future use. It is recommended that a carrier protein (0.1% BSA or HSA) or medium serum be added to diluted material.

**Reactivity** Determined by its ability to induce IL-8 in human PBMCs using a concentration range of 10ng-100ng (will vary depending on PBMC donors).

**Storage** The lyophilized powder is stable at room temperature for a few weeks but it is best stored desiccated at -20°C. Reconstituted IL-17E should be stored in working aliquots at -20°C. Avoid frequent freeze thaw cycles.

## GENE INFORMATION

**Gene Name** [IL25 interleukin 25 \[ Homo sapiens \]](#)

**Synonyms** IL25; interleukin 25; interleukin 17E; IL17E; IL-25; IL-17E; Interleukin-25; UNQ3120/PRO10272; Interleukin-17E

**Gene ID** [64806](#)

**mRNA Refseq** [NM\\_022789](#)

**Protein Refseq** [NP\\_073626](#)

**MIM** [605658](#)

**UniProt ID** [Q9H293](#)

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<b>Chromosome Location</b>	14q11.2
<b>Pathway</b>	Cytokine-cytokine receptor interaction
<b>Function</b>	cytokine activity; interleukin-17E receptor binding

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