

Recombinant Human Interleukin 25

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

SPECIFICATION

Product Overview	Recombinant Human Interleukin 25 expressed in <i>E. Coli</i> is a homodimeric protein with a total weight of 33.8kDa containing two 146 amino acid residue chains.
Species	Human
Source	E.coli
Description	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.
Amino Acid Sequence	MYSHWPSCCP SKGQDTSEEL LRWSTVPVPP LEPARPNRHP ESCRASEDGP LNSRAISPWR YELDRDLNRL PQDLYHARCL CPHCVSLQTG SHMDPRGNSE LLYHNQTVFY RRPCHGEKGT HKGYCLERRL YRVSLACVCV RPRVMG
Supplied	Sterile filtered solution is lyophilized from 10mM Acetic Acid with no additives.
Purity	>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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Chromosome Location	14q11.2
Pathway	Cytokine-cytokine receptor interaction
Function	cytokine activity; interleukin-17E receptor binding

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