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## Product Data Sheet

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Product Name: IL 17E Human  
 Cat. No.: GP20587  
 Batch No.: 1

### Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped at Room temp.
Synonyms	IL-25; IL-17E; IL17E; IL25; Interleukin-25; Interleukin-17E.		
Amino Acid Sequence	MYSHWPSCCP SKGQDTSEEL LRWSTVPVPP LEPARPNRHP ESCRASEDGP LNSRAISPWR YELDRDLNRL PQDLYHARCL CPHCVSLQTG SHMDPRGNSE LLYHNQTVFY RRPCHGEKGT HKGYCLERRL YRVSLACVCV RPRVMG.		
Solubility	It is recommended to reconstitute the lyophilized Interleukin Human IL25 in sterile 10mM HCl not less than 100µg/ml, which can then be further diluted to other aqueous solutions.		
Formulation	Lyophilized from a concentrated (1mg/ml) solution containing no additives.		

### Introduction

IL-25 also called IL-17E cytokine has a sequence similarity with IL17. IL-17E induces NF-kappaB activation, and stimulates the production of IL-8. IL17E and IL17B are ligands for the cytokine receptor IL17BR. IL-25 is a proinflammatory cytokine favoring Th2-type immune response. The upregulation of costimulation-induced IL-17E receptors and release of cytokines and chemokines from IL-17E treated costimulated Th cells are differentially regulated by intracellular JNK, p38 MAPK and NF-kappaB activity. Blocking interleukin-25 prevents airway hyperresponsiveness, a critical feature of clinical asthma. IL25 produced by innate effector eosinophils and basophils increase the allergic inflammation by enhancing the maintenance and functions of TSLP-DC activated adaptive Th2 memory cells. Over expression of IL-25 up-regulates gene expression of Th2 cytokines and induces growth retardation, jaundice, and multiorgan inflammation in a transgenic mouse model. IL-25 contributes to the induction and maintenance of eosinophilic inflammation by acting on lung fibroblasts which supports the fact that IL-

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

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IL-17E is an important factor in asthma pathophysiology. IL-17E operates by amplifying TH2 cell-mediated allergic airway inflammation but does not induce allergic inflammation in vivo.

### Biological Activity

The ED50 as determined by the dose-dependent production of IL-8 by Human PBMCs is 26-40ng/ml, corresponding to a specific activity of 3.8x10<sup>4</sup> units/mg.

### Stability

Lyophilized Interleukin Human IL17E although stable at room temperature for 3 weeks, should be stored desiccated below -18°C . Upon reconstitution Human IL-25 should be stored at 4°C between 2-7 days and for future use below -18°C .For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA).Please prevent freeze-thaw cycles.

### Background

Interleukin-17E Human Recombinant produced in E.Coli is a non-glycosylated disulfide-linked homodimer containing 2x145 amino acids (with an N-terminal Methionine for each chain total aa for each chain 146) and having a total predicted molecular mass of 33.7kDa.The IL-25 Human is purified by proprietary chromatographic techniques.

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