

## Product Data Sheet

Product Name: IL17E Mouse  
 Cat. No.: GP20593  
 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.

Amino Acid Sequence VSLRIQEGCSHLPSCCPSKEQPPEEWLKWSSASVSPPEPLSHTTHAESCRASKDGPLNSRAISPWSYELDRDLNRVPQDLYHARCLCPHCVSLQTGSH

Solubility It is recommended to reconstitute the lyophilized Mouse IL17E in sterile 10mM HCl at a concentration not less than 100µg/ml, which Formulation IL17E was 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-17E is an important factor in asthma pathophysiology. IL-17E operates by amplifying TH2 cell-mediated allergic airway inflammation but doesn't induce allergic inflammation in vivo.

### Biological Activity

The activity is determined by the dose-dependent production of IL-8 by human PBMCs and is 322-488ng/ml.

### Stability

Lyophilized Murine IL17E although stable at room temperature for 3 weeks, should be stored desiccated below -18°C . Upon reconstitution IL17E 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

Recombinant mouse IL-17E is a non-glycosylated, disulfide-linked homodimer, containing 2x145 amino acid chains, with a total molecular weight of 35.5 kDa. The Mouse IL-17E is purified by proprietary chromatographic techniques.

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

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