



# SZABO SCANDIC

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## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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### Lieferung & Zahlungsart

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### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

### SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

[mail@szabo-scandic.com](mailto:mail@szabo-scandic.com)

[www.szabo-scandic.com](http://www.szabo-scandic.com)

[linkedin.com/company/szaboscandic](https://www.linkedin.com/company/szaboscandic) 



## Interleukin-17E, mouse recombinant (rIL-17E)

**Catalog No:** 97243  
**Lot No:** XXXXX  
**Source:** *E. coli*  
**Synonyms:** IL-25, IL-17E, IL17E, IL25, Interleukin-25

### Background

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.

### Description

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

### Physical Appearance

Sterile filtered white lyophilized (freeze-dried) powder.

### Formulation

IL-17E was lyophilized from a concentrated (1 mg/ml) solution containing no additives.

### Solubility

It is recommended to reconstitute the lyophilized Interleukin-17E in sterile 10 mM HCl at a concentration not less than 100 µg/ml, which can then be further diluted to other aqueous solutions.

### Stability

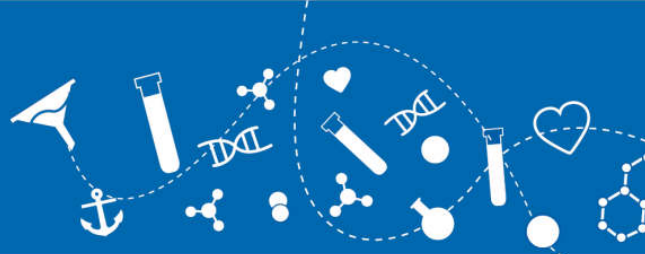
Lyophilized IL-17E, although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution IL-17E should be stored at 4°C between 2-7 days and for future use below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

### Purity

Greater than 95.0% as determined by (a) Analysis by RP-HPLC, (b) Analysis by SDS-PAGE.

### Amino Acid Sequence

VSLRIQEGCS HLPSCCPske QEPPEEWLKW SSASVSPPEP LSHTHHAESC RASKDGPLNS RAISPWSYEL DRDLNRVPQD  
LYHARCLCPH CVSLQTGSHM DPLGNSVPLY HNQTVFYRRP CHGEEGTHRR YCLERRLYRV SLACVCVRPR VMA



**Activity**

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

**Usage**

**This product is offered by Biomol for research purposes only. Not for diagnostic purposes or human use. It may not be resold or used to manufacture commercial products without written approval of Biomol GmbH.**