



Product Datasheet

Product Name	Interleukin-17E Rat Recombinant
Cata No	CB501310
Source	<i>Escherichia Coli.</i>
Synonyms	IL-25, IL-17E, IL17E, IL25, Interleukin-25.

Description

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. Interleukin-17E Rat Recombinant produced in E.Coli is a homodimeric, non-glycosylated polypeptide chain containing 145 amino acids and

having a molecular mass of 35.5 kDa.

The IL-25 Rat is purified by proprietary chromatographic techniques.

Physical Appearance

Sterile Filtered White lyophilized (freeze-dried) powder.

Purity

Greater than 95.0% as determined by:

- (a) Analysis by RP-HPLC.
- (b) Analysis by SDS-PAGE.

Formulation

Lyophilized from a concentrated (1mg/ml) solution containing no additives.

Reconstitution

It is recommended to reconstitute the lyophilized Interleukin Rat IL25 in sterile 10mM HCL not less than 100µg/ml, which can then be further diluted to other aqueous solutions.

Stability

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

Sequence

CSHLPRCCPS KQQEFPEEWL KWNPAVSP

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EPLRHTHHPE SCRASKDGPL NSRAISPWSY
ELDRDLNRVP QDLYHARCLC PHCVSLQTGS

HMDPMGNSVP LYHNDPVDYRDFD
GRYCLERRLY RVSLACVCVR PRMMA

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