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IL 17E Rat

Interleukin-17E Rat Recombinant
CYK0272

Product Overview

Name	IL 17E Rat

Description

Interleukin-17E Rat Recombinant

Synonyms

IL-25, IL-17E, IL17E, IL25, Interleukin-25.

Introduction

IL-25 also called IL-17E cytokine has a sequence similarity with IL17. IL-17E indluces 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 Iinterleukin-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.

Source

Escherichia Coli.

Physical Appearance

Sterile Filtered White lyophilized (freeze-dried) powder.

Formulation

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

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.

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Purity

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

Amino acid sequence

CSHLPRCCPS KQQEFPEEWL KWNPAPVSPP EPLRHTHHPE SCRASKDGPL NSRAISPWSY ELDRDLNRVP QDLYHARCLC PHCVSLQTGS HMDPMGNSVP LYHNQTVFYR RPCHGEQGAH GRYCLERRLY RVSLACVCVR PRMMA.

Solubility

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

Precautions

IL 17E Rat is for research use only and not for use in diagnostic or therapeutic procedures.