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IL 17E Human

Interleukin-17E Human Recombinant
CYK0271

Product Overview

Name	IL 17E Human
Description	
Interleukin-17E Human Recombinant	
Accession (Primary)	Q9H293
Synonyms	
IL-25, IL-17E, IL17E, IL25, Interleukin-25, Interleukin-17E.	
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 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	

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-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 SDS-PAGE.

Amino acid sequence

MYSHWPSCCP SKGQDTSEEL LRWSTVPVPP LEPARPNRHP ESCRASEDGP LNSRAISPWR YELDRDLNRL PQDLYHARCL CPHCVSLQTG SHMDPRGNSE LLYHNQTVFY RRPCHGEKGT HKGYCLERRL YRVSLACVCV RPRVMG.

Biological Activity

The ED 50 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 4 units/mg.

Solubility

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

Precautions

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

Target Information: (Q9H293)