

Technical Data Sheet

Product Name: IL 17E Recombinant Protein

Catalogue Number: BPBOI074

Volume: 10µg-10mg

Alternative Name: IL-25,IL-17E,IL17E,IL25,Interleukin-25,Interleukin-17E.

Description:

Source : Escherichia Coli. Interleukin-17E Human Recombinant produced in E.Coli is a homodimeric, non-glycosylated polypeptide chain containing 146 amino acids and having a molecular mass of 33.7 kDa. The IL-25 Human is purified by proprietary chromatographic techniques. 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.

Product Info:

Amount: 25 µg

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

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

Storage condition: 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 -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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Amino Acid: MYSHWPSCCP SKGQDTSEEL LRWSTVPVPP LEPARPNRHP
ESCRASEDGP LNSRAISPWR YELDRDLNRLPQDLYHARCL
CPHCVSLQTG SHMDPRGNSE LLYHNQTVFY RRPCHGEKGT
HKGYCLERRLYRVSLACVCV RPRVMG.

Application Note

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

Technical Assistance:

At BioPioneer, we are committed to providing top-notch technical support and ensuring its accessibility. For any technical assistance, please email us at info@biopioneer.in.