
Product Data Sheet

Product Name: IL-17E Human, HEK
 Cat. No.: GP26054
 Batch No.: 1

Product Data

Purity	>98%	Source	HEK293.
Physical Appearance	solid	Shipping Condition	withIcePacks
Synonyms	interleukin-25 isoform 1, interleukin 25, IL17E, IL-17E, IL25, IL-25, interleukin-17E, interleukin-25.		
Amino Acid Sequence	DGSYSHWPSC CPSKGQDTSE ELLRWSTVPV PPLEPARPNR HPESCRASED GPLNSRAISP WRYELDRDLN RLPQDLYHAR CLCPHCVSLQ TGSMDPRGN SELLYHNQTV FYRRPCHGEK GTHKGYCLER RLYRVSLACV CVRPRVMGHH HHHH		
Formulation	IL-17E protein (0.5mg/ml) contains Phosphate-Buffered Saline (pH 7.4) and 20% glycerol.		

Introduction

IL-17E also called IL-25, 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.

Caution: Product has not been fully validated for medical applications. For research use only.

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA

Product Data Sheet

Biological Activity

Measured by its binding ability in a functional ELISA with Human IL-17 RB.

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

Background

IL-17E Human Recombinant produced in HEK293 cells is a single, non-glycosylated polypeptide chain containing 154 amino acids (33-177a.a) and having a molecular mass of 17.8kDa. IL-17E is fused to a 6 amino acid His-tag at C-terminus & purified by proprietary chromatographic techniques.

Caution: Product has not been fully validated for medical applications. For research use only.

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA