

IL-25/IL-17E Protein, Human, Recombinant (His & Avi), Biotinylated

General Information

Synonyms:	IL-17E;IL-25;IL17E;Interleukin-17E;interleukin-25
Protein Construction:	Tyr33-Gly177
Species:	Human
Expression Host:	HEK293 Cells
Accession:	Q9H293-1
Molecular Weight:	19.24 kDa (predicted). Due to glycosylation, the protein migrates to 25-35 kDa based on Tris-Bis PAGE result.

QC Testing

Biological Activity:	Immobilized Human IL-17RB, His Tag at 5µg/ml (100µl/well) on the plate. Dose response curve for Biotinylated Human IL-25, His Tag with the EC50 of 58.5ng/ml determined by ELISA.
Purity:	> 95% as determined by Tris-Bis PAGE; > 95% as determined by HPLC
Endotoxin:	< 1.0 EU/µg of the protein as determined by the LAL method.
Formulation:	Supplied as 0.22 µm filtered solution in PBS (pH 7.4).

Preparation and Storage

Stability & Storage:

It is recommended to store the product under sterile conditions at -70°C or lower. Samples are stable for up to 12 months at -80°C. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

Proteins are shipped with blue ice.

Protein Background

IL-25, also known as IL-17E, is a member of the IL-17 cytokine family mostly produced by epithelial cells and innate immune cells. After binding to the IL-17RB/IL-17RA complex, IL-25 induces downstream signaling responses in epithelial cells and type 2 lymphocytes, which initiates, propagates, and sustains type 2 immunity. The function of IL-25 in allergic diseases such as asthma has been well established, and now also is extended to diseases such as inflammatory bowel disease and cancer.

Reference

Xu M, Dong C. IL-25 in allergic inflammation. Immunol Rev. 2017 Jul;278(1):185-19doi: 10.1111/imr.12558. PMID: 28658555.

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Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481