Recombinant Human IL-25/IL-17E Protein

Catalog No.: RP01927

Sequence Information

Species
Human

Gene ID
64806

Swiss Prot
Q9H293

Tags
N-6His

Synonyms
IL17E; IL-17E; IL25; IL-25; interleukin 25; Interleukin-17E; interleukin-25

Product Information

Source
HEK293 cells

Purification
≥ 95 % as determined by SDS-PAGE.

Calculated MW
17.58 kDa

Observed MW
20-30 kDa

Endotoxin
< 0.1 EU/μg of the protein by LAL method.

Formulation
Lyophilized from a 0.22 μm filtered solution of PBS, pH 7.4.

Reconstitution
Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stablizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

Background

Interleukin-25 (IL-25) is a cytokine that shares sequence similarity with interleukin 17. This cytokine can induce NF-kappaB activation, and stimulate the production of interleukin 8. Both this cytokine and interleukin 17B are ligands for the cytokine receptor IL17BR. IL-25 is a member of the IL-17 family of cytokines. However, unlike the other members of this family, IL-25 promotes T helper (Th) 2 responses. IL-25 also regulates the development of autoimmune inflammation mediated by IL-17–producing T cells. IL-25 and IL-17, being members of the same cytokine family, play opposing roles in the pathogenesis of organ-specific autoimmunity. IL-25 promotes cell expansion and Th2 cytokine production when Th2 central memory cells are stimulated with thymic stromal lymphopoietin (TSLP)–activated dendritic cells (DCs), homeostatic cytokines, or T cell receptor for antigen triggering. Elevated expression of IL-25 and IL-25R transcripts was observed in asthmatic lung tissues and atopic dermatitis skin lesions, linking their possible roles with exacerbated allergic disorders. A plausible explanation that IL-25 produced by innate effector eosinophils and basophils may augment the allergic inflammation by enhancing the maintenance and functions of adaptive Th2 memory cells had been provided.

Basic Information

Description
Recombinant Human IL-25/IL-17E Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Tyr33-Gly177) of Human IL-25/IL-17E (Accession #NP_073626.1) fused with a His tag at the N-terminus.

Activity
Measured by its ability to induce CXCL1/GRO alpha secretion in HT-29 human colon adenocarcinoma cells. The ED_{50} for this effect is 5.46-21.84ng /mL, corresponding to a specific activity of 4.58×10^{4}~1.83×10^{5} units/mg.

Shipping
Lyophilized proteins are shipped at ambient temperature.
Liquid proteins are shipped at frozen temperature with dry ice.
Upon receipt, store it immediately at the temperature recommended below.

Storage
Store at -20℃

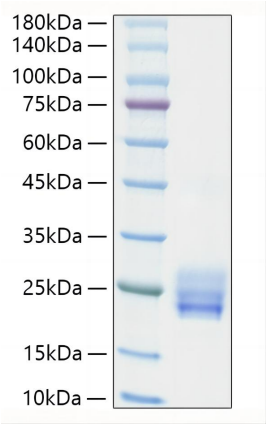
Operational Notes
For your safety and health, please wear a lab coat and disposable gloves for handling.

Contact

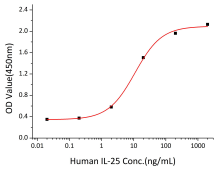
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Validation Data



Recombinant Human IL-25/IL-17E Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.



Recombinant Human IL-25/IL-17E induce CXCL1/GRO alpha secretion in HT-29 human colon adenocarcinoma cells. The ED_{50} for this effect is 5.46-21.84ng/mL, corresponding to a specific activity of 4.58×10^{4}~1.83×10^{5} units/mg.