

Recombinant Mouse IL-25/IL-17E Protein

Catalog No.: RP01799

Sequence Information

Species **Gene ID**
Mouse 140806

Swiss Prot **Tags**
Q8VHH8 N-His

Synonyms
IL-25; IL17e; IL-17e, IL25

Product Information

Source **Purification**
HEK293 cells ≥ 90 % as
 determined by
 SDS-PAGE.

Calculated MWObserved MW
18.31 kDa 25-30 kDa

Endotoxin
< 0.01 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 stabilizer
(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-κB 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 Mouse IL-25/IL-17E Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Val 17-Ala 169) of mouse IL17E (Accession #NP_542767) fused with and a 6×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 ED₅₀ for this effect is 0.96-3.83 ng/mL, corresponding to a specific activity of 2.61×10⁵~1.04×10⁶ 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°C

Operational Notes

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

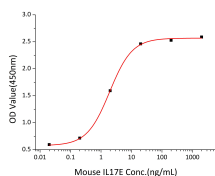
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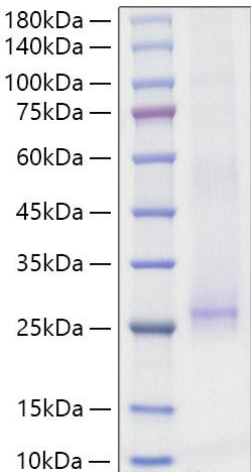
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Validation Data



Recombinant Mouse IL-25/IL-17E Protein induce CXCL1/GRO alpha secretion in HT-29 human colon adenocarcinoma cells. The ED₅₀ for this effect is 0.96-3.83 ng/mL, corresponding to a specific activity of 2.61×10⁵~1.04×10⁶ units/mg.



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