Human IL25 Protein (Fc Tag)

Catalog Number: 10096-H01H



SDS-PAGE:

General Information

Gene Name Synonym:

IL17E

Protein Construction:

A DNA sequence encoding the mature form of human IL25 (Tyr 33-Gly177) (NP_073626.1) was fused with the Fc region of human IgG1 at the Nterminus via a polypeptide linker.

Source: Human

HEK293 Cells **Expression Host:**

QC Testing

> 95 % as determined by SDS-PAGE **Purity:**

Bio Activity:

1. Measured by its binding ability in a functional ELISA. Immobilized human IL17BR-His (Cat:13091-H08H) at 10 µg/ml (100 µl/well) can bind human Fc-IL25 (Cat:10096-H01H), The EC₅₀ of human Fc-IL25 (Cat:10096-H01H) is 1.7-4.2 μ g/mL. 2. Measured by its ability to induce CXCL1/GRO α secretion in HT29. The ED₅₀ for this effect is 15-60 ng/mL.

Endotoxin:

< 1.0 EU per µg of the protein as determined by the LAL method

Stability:

Samples are stable for up to twelve months from date of receipt at -70 °C

Predicted N terminal: Glu 20

Molecular Mass:

The recombinant human IL25/Fc chimera is a disulfide-linked homodimeric protein. The reduced monomer consists of 403 amino acids and predicts a molecular mass of 45 KDa. As a result of glycosylation, the apparent molecular mass of rh IL25/Fc monomer is approximately 50-60 KDa in SDS-PAGE under reducing conditions.

Formulation:

Lyophilized from sterile PBS, pH 7.4

Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Specific concentrations are included in the hardcopy of COA. Please contact us for any concerns or special requirements.

Usage Guide

Storage:

Store it under sterile conditions at -20 °C to -80 °C upon receiving. Recommend to aliquot the protein into smaller quantities for optimal storage.

Avoid repeated freeze-thaw cycles.

Reconstitution:

Detailed reconstitution instructions are sent along with the products.

KDa M 116 66.2 45.0 35.0 25.0

Protein Description

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.

References

1.Rickel EA, et al.. (2008) Identification of functional roles for both IL-17RB and IL-17RA in mediating IL-25-induced activities. J Immunol. 181(6): 4299-310. 2.Tamachi T, et al.. (2006) IL-25 enhances allergic airway inflammation by amplifying a TH2 cell-dependent pathway in mice. J Allergy Clin Immunol. 118(3): 606-14. 3.Kleinschek MA, et al.. (2007) IL-25 regulates Th17 function in autoimmune inflammation. J Exp Med. 204(1): 161-70.

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