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Recombinant Human IL-25 Protein(Halo Tag)

Catalog Number: PDMH100460

Note: Centrifuge before opening to ensure complete recovery of vial contents.

Description

Species Human

Source HEK293 Cells-derived Human IL-25 protein Tyr33-Gly177, with an C-terminal Halo

Calculated MW 57.8 kDa Observed MW 52 kDa Q9H293 Accession

Not validated for activity **Bio-activity**

Properties

> 95% as determined by reducing SDS-PAGE. **Purity**

Endotoxin < 1.0 EU/mg of the protein as determined by the LAL method

Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -Storage

80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of

reconstituted samples are stable at < -20°C for 3 months.

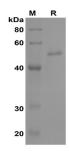
Shipping This product is provided as lyophilized powder which is shipped with ice packs. **Formulation**

Lyophilized from a 0.2 µm filtered solution in PBS with 5% Trehalose and 5%

Reconstitution It is recommended that sterile water be added to the vial to prepare a stock solution

of 0.5 mg/mL. Concentration is measured by UV-Vis.

Data



SDS-PAGE analysis of Human IL-25 proteins, 2µg/lane of Recombinant Human IL-25 proteins, was resolved with SDS-PAGE under reducing conditions, showing bands at 52 KD

Background

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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.

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