

Recombinant Mouse Interleukin 25, His-tagged

Cat. No. II25-748M Lot. No. (See product label)

SPECIFICATION

Product Overview A DNA sequence encoding the mature form of mouse II25 was expressed with a N-terminal polyhistidine tag. The secreted recombinant mouse II25 consists of 175 amino acids and has a calculated molecular mass of 20 kDa.

Species Mouse

Source Human Cells

ProteinLength 175 amino acids

Description Interleukin 25 (II25), also known as IL17E, is a cytokine that belongs to the IL17 cytokine family and is secreted by type 2 helper T cells (Th2) and mast cells. II25 induces the production of other cytokines, including IL-4, IL-5 and IL-13 in multiple tissues, then induces Th2 immune responses such as blood eosinophilia and increased serum immunoglobulin E levels. This cytokine is an important molecule controlling immunity of the gut and has been implicated in chronic inflammation associated with the gastrointestinal tract. Further, the II25 gene has been identified in a chromosomal region associated with autoimmune diseases of the gut such as inflammatory bowel disease (IBD). In addition, studies shown that enforced expression of II25 in the lung significantly enhances antigen-induced Th2 cytokine production and eosinophil recruitment into the airways, thus suggesting an important role of II25 in enhancing allergic airway inflammation by a CD4+ T-cell-dependent mechanism.

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Predicted N Terminal	Gly
Form	Lyophilized from sterile PBS , pH 7.4. Normally 5 % - 8 % trehalose and mannitol are added as protectants before lyophilization. Specific concentrations are included in the hardcopy of COA.
Molecular Mass	The secreted recombinant mouse IL25 consists of 175 amino acids and has a calculated molecular mass of 20 kDa. As a result of glycosylation, rmlL25 migrates with the MW of approximately 30-35 kDa in SDS-PAGE under reducing conditions.
Endotoxin	< 1.0 eu per 1µg of the protein as determined by the lal
Purity	>95%, as determined by SDS-PAGE
Stability	Samples are stable for up to twelve months from date of receipt at -70 °C.
Storage	Store it under sterile conditions at -70°C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

GENE INFORMATION

Gene Name	IL25 interleukin 25 [<i>Mus musculus</i>]
Official Symbol	IL25
Synonyms	IL25; interleukin 25; interleukin-25; interleukin 17E; IL17e; IL-17e;
Gene ID	140806
mRNA Refseq	NM_080729

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Protein Refseq

NP_542767

Pathway

Cytokine-cytokine receptor interaction, organism-specific biosystem; Cytokine-cytokine receptor interaction, conserved biosystem;

Function

cytokine activity; interleukin-17E receptor binding;

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