# Recombinant Mouse Interleukin 25, His-tagged

**Cat. No.** Il25-748M **Lot. No.** (See product label)

## SPECIFICATION

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| **Product Overview** | A DNA sequence encoding the mature form of mouse Il25 was expressed with a N-terminal polyhistidine tag. The secreted recombinant mouse Il25 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 (Il25), 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.Il25 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 Il25 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 Il25 in the lung significantly enhances antigen-induced Th2 cytokine production and eosinophil recruitment into the airways, thus suggesting an important role of Il25in enhancing allergic airway inflammation by a CD4+ T-cell-dependent mechanism. |

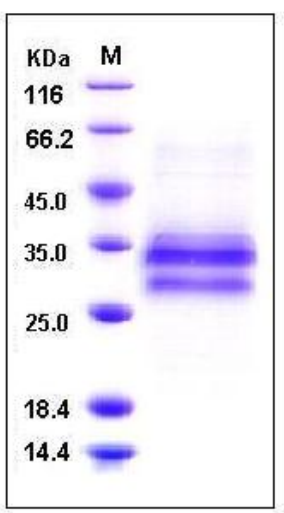
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| **Predicted N Terminal** | Gly |
| **Form** | Lyophilized from sterile PBS , pH 7.4. Normally 5 % - 8 % trehalose and mannitol are added as protectants before lyophilization. Specific concentrations are included in the hardcopy of COA. |
| **Molecular 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, rmIL25 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

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| **Gene Name** | Il25 interleukin 25 [ Mus musculus ] |
| **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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