

## Recombinant Mouse Interleukin-25 / 17E (rm IL-25)

**Introduction:** Mouse IL-25/ IL-17E cDNA encodes a 169 amino acid residues (aa) precursor protein with a putative 16 aa signal peptide. Mature mouse IL-25/ IL-17E shares 76% and 91% amino sequence (aa) identity with mature human and rat IL-25/ IL-17E, respectively. Mouse IL-25/IL-17E also shares from 24% to 32% sequence identity with the other mouse IL-17 family members. IL-25/ IL-17E expression was detected at very low levels by PCR in various peripheral tissues including brain, kidney, lung, prostate, testis, adrenal gland spinal cord and trachea. IL-25/ IL-17E binds and activates IL-17B Receptor (IL17-R), which is expressed in kidney and liver, and at lower levels in brain, testis and other endocrine tissues. The expression of IL-17BR is up regulated under inflammatory conditions. Ligation of IL-25/ IL-17E to IL-17 RB induces activation of nuclear factor kappaB and stimulates the production of the proinflammatory cytokine IL-8. IL-17 has also been found to promote the expression of the prototypical Th2 genes.

**Description:** Recombinant Murine IL-25 produced in *E.Coli* is a 17.6 kDa protein containing 169 amino acid residues.

**Source:** *Escherichia Coli*.

**Physical Appearance:** Sterile Filtered White lyophilized (freeze-dried) powder.

**Formulation:** Lyophilized from a 0.22 µm filtered solution in 25 mM sodium phosphate, pH 6.5 + 200 mM NaCl. The sample size of 1µg contains Trehalose 5% (w/vol) for better recovery

**Solubility:** It is recommended to reconstitute the lyophilized rm IL-25 in sterile H<sub>2</sub>O not less than 100 µg/ml, which can then be further diluted to other aqueous solutions.

**Stability:** Lyophilized rm IL-25 although stable at room temperature for 3 weeks, should be stored desiccated below -18° C . Upon reconstitution rm IL-25 should be stored at 4° C between 2-7 days and for future use below -18° C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

**Purity:** 95.0% as determined by SDS-PAGE.

**Endotoxicity:** less than 0.1 ng per µg (1EU/µg) determined by LAL method

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|                |        |        |          |
|----------------|--------|--------|----------|
| <i>small</i>   | 5 µg   | Cat.N° | 12340250 |
| <i>medium</i>  | 25 µg  | Cat.N° | 12340254 |
| <i>large</i>   | 100 µg | Cat.N° | 12340256 |
| <i>x-large</i> | 500 µg | Cat.N° | 12340257 |

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