

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 H₂O 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

This material is offered for **research only**. Not for use in human. For in vitro use only. ImmunoTools will not be held responsible for patent infringement or other violations that may occur with the use of our products.

<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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