

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

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.

Recombinant mouse IL-25 is a 17.6 kDa protein containing 169 amino acid residues.

<b>Synonyms :</b>	Interleukin 17E, IL-17E
<b>Source:</b>	<i>Escherichia coli</i>
<b>AA Sequence:</b>	N-terminal Met
<b>Formulation:</b>	Lyophilisate from a 0.22 µm filtered carrier free solution in 25 mM sodium phosphate, pH 6.5 + 200 mM NaCl.
<b>Reconstitution:</b>	Reconstitute in sterile endotoxin free water not less than 100 µg/ml
<b>Stability:</b>	The lyophilized protein is stable for at least 2 years at -20 <sup>0</sup> C. Reconstituted rm IL-25 is stable for at least 3 months when stored in concentrated working aliquots (100 ng/µl or higher) at -20 <sup>0</sup> C. Avoid repeated freeze/thaw cycles.
<b>Biological Activity:</b>	Measured by its ability to bind with rmIL-17BR/Fc Chimera in a functional ELISA.
<b>Purity:</b>	95% (verified by SDS-PAGE / silver stain)
<b>Endotoxicity:</b>	The endotoxin level is less than 0.1 ng per µg (1EU/µg) determined by LAL method
<b>Order N°:</b>	rm IL-25+Size available sizes: 5 µg, 25 µg, 100 µg

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