

Rev03  
Update: Dec,14,2021

**DATASHEET**

# IL-25, Mouse

Cat. No.: Z02771

## Product Introduction

<b>Species</b>	Mouse
<b>Protein Construction</b>	Expressed with an N-terminal Met. <b>IL-25 (Val25-Leu166) Accession # Q9CPT4</b>
<b>Purity</b>	> 95% as analyzed by SDS-PAGE > 95% as analyzed by HPLC
<b>Endotoxin Level</b>	< 1 EU/μg of protein by LAL method
<b>Expression System</b>	E. coli
<b>Theoretical Molecular Weight</b>	15.8 kDa
<b>Formulation</b>	Lyophilized from a 0.2 μm filtered solution in PBS, pH 7.4.
<b>Reconstitution</b>	It is recommended that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute the lyophilized powder in sterile distilled water or aqueous buffer containing 0.1 % BSA to a concentration of 0.1-1.0 mg/ml.
<b>Storage &amp; Stability</b>	Upon receiving, this product remains stable for up to 6 months at -70°C or -20°C. Upon reconstitution, the product should be stable for up to 1 week at 4°C or up to 3 months at -20°C. Avoid repeated freeze-thaw cycles.

## Background

**Target Background :** Interleukin-25 (IL-25), also known as interleukin-17E (IL-17E), is a cytokine that belongs to the IL-17 cytokine family together with IL-17A (named also IL-17), IL-17B, IL-17C, IL-17D and IL-17F. IL-25 has a heterodimeric receptor. The receptor is composed of two subunits IL-17RA and IL-17RB, it does not bind directly to IL-17RA, but this subunit is necessary for its functions, as well as IL-17RB which directly bind IL-25. IL-25 can induce NF-κB activation, and stimulate the production of IL-8 (named also CXCL8), which is the major chemotactic substance of neutrophils. Another important function of IL-25 is to support the Th2 immune response. IL-25 has been shown to induce the production of IL-4, IL-5 and IL-13. Evidence is the expression of IL-17RB on Th2 cells, not on Th1 and Th17. In addition, IL-25 is responsible for the decrease in IFN gamma.

**Synonyms :** IL25; IL17E; IL-25; interleukin 25

For laboratory research use only. Direct human use, including taking orally and injection and clinical use are forbidden.