

Rev04  
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**DATASHEET**

# IL-33, Human

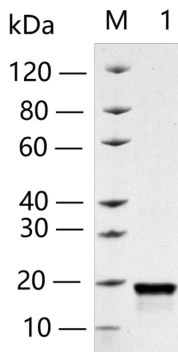
Cat. No.: Z03198

## Product Introduction

<b>Species</b>	Human
<b>Protein Construction</b>	<b>IL-33 (Ser112-Thr270) Accession # O95760</b>
<b>Purity</b>	> 95% as analyzed by SDS-PAGE
<b>Endotoxin Level</b>	< 0.2 EU/μg of protein by gel clotting method
<b>Biological Activity</b>	ED <sub>50</sub> < 0.5 ng/ml, measured by a cell proliferation assay using D10S cells, corresponding to a specific activity of > 2.0 × 10 <sup>6</sup> units/mg.
<b>Expression System</b>	E. coli
<b>Apparent Molecular Weight</b>	~18.0 kDa, on SDS-PAGE under reducing conditions.
<b>Formulation</b>	Lyophilized after extensive dialysis against PBS.
<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 ddH <sub>2</sub> O up to 100 μg/ml.
<b>Storage &amp; Stability</b>	Upon receiving, this product remains stable for up to 6 months at lower than -70°C. Upon reconstitution, the product should be stable for up to 1 week at 4°C or up to 3 months at -20°C. For long term storage it is recommended that a carrier protein (example 0.1% BSA) be added. Avoid repeated freeze-thaw cycles.

## Examples

Lane 1: 2  $\mu$ g of IL-33, Human, reducing (R)  
> 95% as analyzed by SDS-PAGE



## Background

**Target Background :** Interleukin-33 (IL-33) is a proinflammatory cytokine that belongs to the IL-1 family. IL-33 is expressed in a variety of cells, including epithelial and endothelial cells, smooth muscle cells, macrophages and fibroblasts. The primary receptors for IL-33 are ST2 and IL-1 receptor accessory protein (IL-1RAcP), both of which belong to the IL-1 receptor family. IL-33 is localized to the nucleus of resting cells where it binds to chromatin in the H2A-H2B histone complex as a transcriptional suppressor. IL-33 is secreted by cells during injury which induces a T-helper 2 type inflammatory response. Evidence suggests IL-33 plays a role in autoimmune disease. IL-33's interaction with ST2 can drive allergic pathology and IL-33 has been reported to play a role in the development of rheumatoid arthritis and systemic lupus erythematosus.

**Synonyms :** IL33; C9orf26; DVS27; IL1F11; NF-HEV; NFEHEV; Interleukin 33; IL-33; IL-1F11

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

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