

## Recombinant Rat Interleukin 33

**Cat. No.** II33-286R    **Lot. No.** (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant rat IL-33 (aa 109-264) was expressed in E. coli, ~16kDa.
<b>Species</b>	Rat
<b>Source</b>	E.coli
<b>ProteinLength</b>	109-264 a.a.
<b>Description</b>	IL-33 is a new member of the IL-1 family. It is involved in T helper type 2 response via the activation of its receptor ST2 (IL-1RL1) driving the production of Th2-associated cytokines. The stimulation of ST2 by IL-33 induces the NF-κB and MAPK pathways. The human IL-33 protein is expressed with a prodomain (aa 1-111) which is cleaved by caspase-1 to produce the 18kDa mature protein (112-270).
<b>Purity</b>	≥95% (SDS-PAGE).
<b>Concentration</b>	0.1mg/ml after reconstitution.
<b>Formulation</b>	Lyophilized. Contains PBS.
<b>Endotoxin Content</b>	<0.1EU/g purified protein (LAL test; Bio Whittaker).
<b>Reconstitution</b>	Reconstitute with 100µl sterile distilled water. Further dilutions should be made with medium containing 5% fetal calf serum.

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<b>Long Term Storage</b>	-20°C.
<b>Use/Stability</b>	Stable for at least 6 months after receipt when stored at -20°C.
<b>Handling</b>	After reconstitution, prepare aliquots and store at -20°C. Avoid freeze/thaw cycles.

## GENE INFORMATION

<b>Gene Name</b>	Il33 interleukin 33 [ <i>Rattus norvegicus</i> ]
<b>Synonyms</b>	interleukin 33; RGD1311155; Il33; interleukin-33; IL-33
<b>Gene ID</b>	361749
<b>mRNA Refseq</b>	NM_001014166
<b>Protein Refseq</b>	NP_001014188
<b>UniProt ID</b>	Q66H70
<b>Chromosome Location</b>	1q52
<b>Pathway</b>	Cytosolic DNA-sensing pathway
<b>Function</b>	cytokine activity; protein binding

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