

IL33

## Recombinant Rat Interleukin-33

<b>Catalog No.</b>	CS501A CS501B CS501C	<b>Quantity:</b>	2 µg 10 µg 1 mg
<b>Alternate Names:</b>	IL-33		
<b>Description:</b>	<p>Interleukin-33 (IL-33), also known as NF-HEV and DVS 27, is a cytokine belonging to the IL-1 superfamily. It is also a proinflammatory protein that may regulate gene transcription and it induces helper T cells, mast cells, eosinophils and basophils to produce type 2 cytokines. The induction of type 2 cytokines by IL-33 <i>in vivo</i> is believed to induce the severe pathological changes observed in mucosal organs following administration of IL-33. IL-33 is constitutively expressed in smooth muscle and airway epithelia and it binds to a high-affinity receptor family member ST2. <i>In vivo</i> administration of mature IL-33 promotes increased production of IL-5, IL-13, IgE, and IgA, as well as splenomegaly and inflammatory infiltration of mucosal tissues.</p> <p>Recombinant Rat IL-33 is a single non-glycosylated polypeptide chain containing 156 amino acid residues that shares 59 % aa and 90% sequence identity with human and mouse IL-33. The product does not contain an affinity tag.</p>		
<b>Gene ID:</b>	361749		
<b>Source:</b>	<i>E. coli</i>		
<b>Molecular Weight:</b>	17.4 kDa (156 aa) monomer		
<b>Formulation:</b>	Lyophilized from sterile-filtered 20 mM Tris, 300 mM NaCl, pH 8.5		
<b>Purity:</b>	> 95 % by SDS-PAGE and HPLC analyses.		
<b>Endotoxin Level:</b>	< 1 EU/µg as determined by LAL method.		
<b>Biological Activity:</b>	ED <sub>50</sub> < 0.05 ng/ml, determined by a cell proliferation assay using mouse D10S cells.		
<b>Specific Activity:</b>	≥ 2.0 × 10 <sup>6</sup> IU/mg.		
<b>Amino Acid Sequence:</b>	SIQGTSLLTE SCALSTYNDQ SVSFVLENGC YVINVEDCGK NQEKDKVLLR YYESSFPAQS GDGVDGKKLM VNMSPIKDTD IWLNANDKDY SVELQKGDVS PPDQAFFVLH KKSSDFVSFE CKNLPGTYIG VKDNQLALVE ENDESCNNIM FKLSKM		
<b>Reconstitution:</b>	<b>Centrifuge vial prior to opening.</b> Add sterile distilled water or aqueous buffer containing 0.1% BSA to a concentration of 0.1-1.0 mg/ml. Further dilution should be made in appropriate buffered solutions.		
<b>Storage &amp; Stability:</b>	This lyophilized preparation is stable at 2-8°C, but should be stored at -20°C to -80°C for long term storage. Upon reconstitution, the preparation is stable for up to one week at 2-8°C. For maximal stability, apportion the reconstituted preparation into working aliquots and store at -20°C to -80°C. <b>Avoid repeated freeze/thaw cycles.</b>		

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