

II33

Recombinant Rat Interleukin-33

Catalog No.	CS501A	Quantity:	2 µg
	CS501B		10 µg
	CS501C		1 mg
Alternate Names:	IL-33		
Description:	<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>		
Gene ID:	361749		
Source:	<i>E. coli</i>		
Molecular Weight:	17.4 kDa (156 aa) monomer		
Formulation:	Lyophilized from sterile-filtered 20 mM Tris, 300 mM NaCl, pH 8.5		
Purity:	> 95 % by SDS-PAGE and HPLC analyses.		
Endotoxin Level:	< 1 EU/µg as determined by LAL method.		
Biological Activity:	ED ₅₀ < 0.05 ng/ml, determined by a cell proliferation assay using mouse D10S cells.		
Specific Activity:	≥ 2.0 × 10 ⁶ IU/mg.		
Amino Acid Sequence:	SIQGTSLLTE SCALSTYNDQ SVSFVLENGC YVINVEDCGK NQEKDKVLLR YYESSFPAQS GDGVDGK KLM VNMSPIKDTD IWLNANDKDY SVELQKGDVS PPDQAFFVLH KKSSDFVSFE CKNLPGTYIG VKDNQLALVE ENDESCNNIM FKLSKM		
Reconstitution:	<p>Centrifuge vial prior to opening. 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.</p>		
Storage & Stability:	<p>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.</p> <p>Avoid repeated freeze/thaw cycles.</p>		

NOT FOR HUMAN USE. FOR RESEARCH ONLY. NOT FOR DIAGNOSTIC OR THERAPEUTIC USE.

