

Recombinant Rat Interleukin-33 (Rat IL-33)

Product Information

Product Name	Cat#	Size
	90180ES10	10 µg
Recombinant Rat Interleukin-33 (Rat IL-33)	90180ES60	100 µg
	90180ES76	500 µg

Product Description

IL-33 (Interleukin-33) is released from physically damaged or necrotic cells. It triggers Th2-biased immune cell activation at sites of inflammation as well as regulatory T cell and M2 macrophage expansion. It additionally induces angiogenesis, promotes tumor cell migration and invasion, limits cardiac myocyte hypertrophy, and limits the development of atherosclerotic plaques. IL-33 signals through a receptor complex composed of ST2 and IL-1 RAcP. IL-1 RAcP also associates with IL-1 RI, IL-1 RI, IL-1 RG, and SCF R/c-kit. Soluble isoforms of ST2 and IL-1 RAcP function as decoy receptors that regulate IL-33 bioactivity.

Product Properties

Synonyms	IL-33		
Accession	Q66H70		
GeneID	361749		
Source	E.coli-derived Rat IL-33, Ser109-Met264.		
Molecular Weight	Approximately 17.4 kDa.		
	SIQGTSLLTE SCALSTYNDQ SVSFVLENGC YVINVEDCGK NQEKDKVLLR YYESSFPAQ		
AA Sequence	GDGVDGKKLM VNMSPIKDTD IWLNANDKDY SVELQKGDVS PPDQAFFVLH		
	KKSSDFVSFE CKNLPGTYIG VKDNQLALVE ENDESCNNIM FKLSKM		
Tag	None		
Physical Appearance	Sterile Filtered White lyophilized (freeze-dried) powder.		
Purity	> 95% by SDS-PAGE and HPLC analyses.		
	The ED_{50} as determined by a cell proliferation assay using murine D10S cells is less than 0.5		
Biological Activity	ng/mL, corresponding to a specific activity of $> 2.0 \times 10^6$ IU/mg. Fully biologically active when		
	compared to standard.		
Endotoxin	< 1.0 EU per 1µg of the protein by the LAL method.		
Formulation	Lyophilized from a 0.2 µm filtered concentrated solution in 20 mM Tris, 300 mM NaCl, pH 8.5.		
	We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the		
Reconstitution	bottom. Reconstitute in sterile distilled water or aqueous buffer containing 0.1% BSA to a		
	concentration of 0.1-1.0 mg/mL. Stock solutions should be apportioned into working aliquots and		
	stored at \leq -20°C. Further dilutions should be made in appropriate buffered solutions.		

Shipping and Storage

The products are shipped with ice pack and can be stored at -20°C to -80°C for 1 year.

Recommend to aliquot the protein into smaller quantities when first used and avoid repeated freeze-thaw cycles.



- 1. Avoid repeated freeze-thaw cycles.
- 2. For your safety and health, please wear lab coats and disposable gloves for operation.
- 3. For research use only!