

Growth Factor Data Sheet

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Interleukin-33 (IL33), also known as NF-HEV and DVS 27, is a cytokine belonging to the IL1 superfamily. IL33 is a pro-inflammatory protein that may regulate gene transcription and induce helper T-cells, mast cells, eosinophils and basophils to produce type 2 cytokines. The induction of type 2 cytokines by IL33 *in vivo* is believed to induce the severe pathological changes observed in mucosal organs following administration of IL33. IL33 is constitutively expressed in smooth muscle and airway epithelia, and it binds to a high-affinity receptor family member ST2. *In vivo* administration of mature IL33 promotes increased production of IL5, IL13, IgE and IgA, as well as splenomegaly and inflammatory infiltration of mucosal tissues.

Catalog Number	1510-33
Product Name	IL33, Rat Recombinant Rat Interleukin-33 IL33 Interleukin 33 IL1F11 Nuclear Factor from High Endothelial Venules (NF-HEV) Chromosome 9 Open Reading Frame 26 (C9ORF26)
Source	<i>Escherichia coli</i>
MW	~17.4 kDa (156 amino acids)
Sequence	SIQGTSLLTE SCALSTYNDQ SVSFVLENGC YVINVEDCGK NQEKDKVLLR YYESSFPAQS GDGVDGKKLM VNMSPIKDTD IWLNANDKDY SVELQKGDVS PPDQAFFVLH KKSSDFVSFE CKNLPGTYIG VKDNQLALVE ENDESCNNIM FKLSKM
Accession Number	Q66H70
Purity	>95% by SDS-PAGE and HPLC analyses
Biological Activity	Fully biologically active when compared to standard. The ED ₅₀ as determined by a cell proliferation assay using murine D10S cells is less than 0.5 ng/ml, corresponding to a specific activity of >2.0 × 10 ⁶ IU/mg.
Formulation	Sterile filtered white lyophilized powder. Purified and tested for use in cell culture.
Storage/Handling	This lyophilized preparation is stable at 2-8°C, but should be kept at -20°C for long term storage. The reconstituted sample can be apportioned into working aliquots and stored at -80 °C for up to 6 months. Avoid repeated freeze/thaw cycles.
Reconstitution	The sample should be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in a siliconized tube using PBS that contains a 0.1% BSA to a concentration of 0.1-1.0 mg/mL. Reconstituted solutions are stable for up to one week at 2-8°C. Stock solutions should be aliquoted and stored at -80°C. Further dilutions should be made in appropriate buffered solutions containing BSA or serum.