

## GFM36AF Recombinant Mouse IL-33 (Animal-Free)

### Description

Interleukin-33 (IL-33) is a member of the IL-1 cytokine family and is constitutively expressed in smooth muscle and airway epithelial cells. IL-33 signals through the interleukin-1 receptor-like 1 (IL-1R1) and interleukin-1 receptor accessory protein (IL1RAP) receptors to activate NF-kappaB and MAPK signaling pathways. IL-33 functions to induce type 2 cytokine production in polarized Type 2 helper T (Th2) cells.

This product is produced with no animal derived raw products. All processing and handling employs animal free equipment and animal free protocols.

<b>Length</b>	160 aa
<b>Molecular Weight</b>	18.1 kDa
<b>Source</b>	E. coli
<b>Accession Number</b>	O95760
<b>Purity</b>	≥95% determined by reducing and non-reducing SDS-PAGE

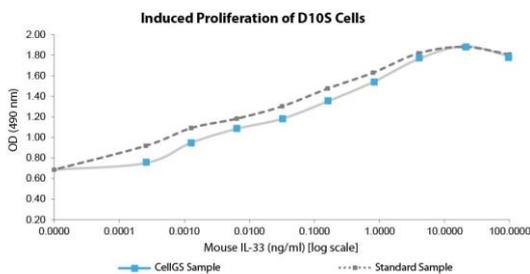
### Specifications

<b>Alternative Names</b>	NP-HEV, interleukin-33, interleukin 33, IL33, IL 33
<b>Biological Activity</b>	Mouse IL-33 (Animal-Free) is fully biologically active when compared to standard. The activity is determined by the ability to induce D10S cells proliferation and it is typically less than 2 ng/ml. This corresponds to an expected specific activity of $5 \times 10^5$ units/mg.
<b>Endotoxin Level</b>	≤1.00 EU/μg as measured by kinetic LAL
<b>Formulation</b>	Lyophilized from a sterile (0.2 micron) filtered aqueous solution containing 0.1% Trifluoroacetic Acid (TFA)
<b>AA Sequence</b>	MSITGISPIT EYLASLSTYN DQSITFALED ESYEIYVEDL KKDEKKDKVL LSYYESQHPS NESGDGVDGK MLMVTLSP TK DFWLHANNKE HVELHKCEK PLPDQAFFVL HNMHSNCVSF ECKTDPGVFI GVKDNHLALI KVDSSNLCT ENILFKLSET

### Preparation and Storage

<b>Reconstitution</b>	Centrifuge vial before opening. When reconstituting the product, gently pipet and wash down the sides of the vial to ensure full recovery of the protein into solution. It is recommended to reconstitute the lyophilized product with sterile water at 0.1 mg/ml, which can be further diluted into other aqueous solutions.
<b>Stability and Storage</b>	12 months from date of receipt when stored at -20°C to -80°C as supplied. 1 month when stored at 4°C after reconstituting as directed. 3 months when stored at -20°C to -80°C after reconstituting as directed.

### Data



Induced proliferation of D10S cells assay for Mouse IL-33. Cell proliferation was measured to calculate the ED50, which is as expected less than 2 ng/ml.