

## IL-33, Mouse

**Cat. No.:** Z02772-1

**Size:** 1.0 mg

**Synonyms:** Interleukin-33 (IL-33), Mouse;

### Description:

IL-33 is a proinflammatory protein that shares structural and functional characteristics with the IL-1 cytokine family. It binds and signals through the IL-1RL1/ST2 receptor activating NF-kappaB and MAP kinases. IL-33 induces production of TH2 cell related cytokines, including IL-4, IL-5 and IL-13, and exerts multiple inflammation related bioactivities.

### Amino Acid Sequence:

```
00001 SIQGTSLLTQ SPASLSTYND QSVSFVLENG CYVINVDDSG
00041 KDQEQDQVLL RYYESPCPAS QSGDGVGKK LMVNMSPIKD
00081 TDIWLHANDK DYSVELQRGD VSPPEQAFFV LHKKSSDFVS
00121 FECKNLPPTY IGVKDNQLAL VEEKDESCNN IMFKLSKI
```

**Source:** *E. coli*

**Species:** Mouse

**Biological Activity:** Fully biologically active when compared to standard. The ED<sub>50</sub> 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<sup>6</sup> IU/mg.

**Molecular Weight:** Approximately 17.5 kDa protein containing 158 amino acid residues.

**Formulation:** Lyophilized from a 0.2 µm filtered solution in PBS, and 1 mM EDTA.

**Appearance:** Sterile Filtered White lyophilized (freeze-dried) powder.

**Reconstitution:** We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the 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 ≤ -20 °C. Further dilutions should be made in appropriate buffered solutions.

**Purity:** > 98 % by SDS-PAGE and HPLC analyses.

**Endotoxin Level:** Less than 1 EU/µg of rMuIL-33 as determined by LAL method.

**Storage:** This lyophilized preparation is stable at 2-8 °C, but should be kept at -20 °C for long term storage, preferably desiccated. 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 -70 °C. Avoid repeated freeze/thaw cycles.