

IL-33, Mouse

Cat. No.: Z02772-10

Size: 10.0 ug

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 ED₅₀ 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 × 10⁶ 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.