

PRODUCT DATA SHEET



Bioworld Technology, Inc.

Recombinant Murine Interleukin-33 (rMuIL-33)

Catalog Number: PR2024

Source: Escherichia coli.

Quantity: 2µg/10µg/1.0mg

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.

Molecular Weight:

Approximately 17.5 kDa protein containing 158 amino acid residues

Purity:

>98% by SDS-PAGE and HPLC analyses.

Biological Activity:

The ED50 was determined by the dose-dependent stimulation of the proliferation of murine D10S cells is ≤ 0.5 ng/ml, corresponding to a specific activity of $\geq 2 \times 10^6$ units/mg.

Physical Appearance:

Sterile Filtered White lyophilized (freeze-dried) powder.

Formulation:

Lyophilized from a 0.2mm filtered solution in PBS, EDTA and DTT.

AA Sequence:

SIQGTSLLTQSPASLSTYNDQSVSFVLE
NGCYVINVDDSGKDQEQDQVLLRYYE

SPCPASQSGDGVGKLMVNMSPDKDT
DIWLHANDKDYVELQRGDVSPPEQAF
FVLHKKSSDFVSFECKNLPPTYIGVKD
NQLALVEEKDESCNNIMFKLSKI

Endotoxin:

Less than 1EU/mg of rmIL-33 as determined by LAL method.

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 $< -20^\circ\text{C}$. Further dilutions should be made in appropriate buffered solutions.

Storage:

This lyophilized preparation is stable at $2-8^\circ\text{C}$, 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 $2-8^\circ\text{C}$. For maximal stability, apportion the reconstituted preparation into working aliquots and store at -20°C to -70°C . Avoid repeated freeze/thaw cycles.

Usage:

This material is offered by USA Bioworld biotech for research, laboratory or further evaluation purposes. NOT FOR HUMAN USE. Made in China

MADE IN CHINA

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