

Recombinant Mouse, IL33 / Interleukin-33,

Animal Free & Carrier Free

Cat #: C-CYP183

Size: 5µg, 20µg, 100µg, 500µg, 1mg

Shipping: Blue Ice

Product Overview

Interleukin 33 (IL-33) is a member of the IL-1 family that potently drives production of T helper-2 (Th2)- associated cytokines (e.g., IL-4). IL33 is a ligand for ST2 (IL1RL1), an IL-1 family receptor that is highly expressed on Th2 cells, mast cells and group 2 innate lymphocytes. It is expressed by a wide variety of cell types, including fibroblasts, mast cells, dendritic cells, macrophages, osteoblasts, endothelial cells, and epithelial cells

Product Information

Source: *Escherichia Coli*.

Purity: >98% as determined by SDS-PAGE. Ni-NTA chromatography.

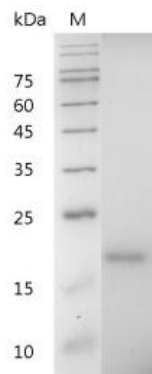
Biological Activity: Measure by its ability to induce proliferation in D10.G4.1 cells. The ED₅₀ for this effect is < 40 pg/mL. The specific activity of recombinant mouse IL-33 is > 2 x 10⁷ IU/mg.

Endotoxin: <0.1 EU per 1 µg of the protein by the LAL method.

Amino acid sequence:

MSIQGTSLLTQSPASLSTYNDQSVSFVLENGCYVINVDDSGKDQEQDQVLLRYYESPCPASQSGDGVGKMLMVNMSPDKDTDIWLHAN
DKDYSVELQRGDVSPPEQAFFVLHKKSSDFVSFECKNLPGTYIGVKDNQLALVEEKDESCNNIMFKLSKI with polyhistidine tag at the C-terminus.

Formulation: Lyophilized from a sterile filtered aqueous solution in 1×PBS, pH 8.0.



SDS-PAGE analysis of recombinant mouse IL-33

Usage Method

1. Before opening, it is recommended to centrifuge at 3000-3500 rpm for 5 minutes.
2. Reconstitute to a concentration of 0.1-1.0 mg/mL in sterile distilled H₂O. Allow the solution to sit at room temperature for at least 20 minutes to ensure complete dissolution. Avoid vigorous vortexing.
3. The reconstituted solution can be stored at 2-8°C for up to 1 week.
4. For long-term storage, it is recommended to further dilute the solution with a carrier protein (such as 0.1% BSA, 10% FBS, or 5% HSA) to a concentration of no less than 10 µg/mL and aliquot for storage at -20°C to -80°C for 3 to 6 months. If serum-free experiments are required, a 5% trehalose solution can be used as a carrier instead. Avoid repeated freeze-thaw cycles.

Storage

| Physical Appearance | Storage | Stability |
|---------------------------------|----------------|------------------|
| Lyophilized powder | -20°C to -80°C | 1 year |
| Reconstitution (initial) | 2°C to 8°C | Less than 1 week |
| Reconstitution (after dilution) | -20°C to -80°C | 3 to 6 months |

Note

The reagent is only used in the field of scientific research, not suitable for clinical diagnosis or other purposes.