

Recombinant Mouse IL-15 Protein

Catalog No.: RP01676 Recombinant 1 Publications

Sequence Information

Species **Gene ID** **Swiss Prot**
 Mouse 16168 P48346

Tags
 C-6His

Synonyms

Il15|Interleukin-15; IL-15

Background

Interleukin 15 (IL-15) is a cytokine that regulates T and natural killer cell activation and proliferation. IL-15 induces the activation of JAK kinases, as well as the phosphorylation and activation of transcription activators STAT3, STAT5, and STAT6. In mouse, studies suggest that IL-15 may increase the expression of apoptosis inhibitor Bcl-xL, possibly through the transcription activation activity of STAT6, and thus prevent apoptosis. IL-15 plays an important role in the growth and differentiation of T and B lymphocytes, natural killer cells, macrophages, and monocytes as well as activation of a number of important intracellular signaling molecules.

Basic Information

Description

Recombinant Mouse IL-15 Protein is produced by *E. coli* expression system. The target protein is expressed with sequence (Asn49-Ser162) of mouse IL-15 (Accession #NP_001241676.1) fused with and a 6×His tag at the C-terminus.

Bio-Activity

1. Measured in a cell proliferation assay using HT-2 mouse T cells. The ED₅₀ for this effect is 15-58 ng/mL, corresponding to a specific activity of 1.72×10⁴-6.67×10⁴ units/mg. 2. Measured in a cell proliferation assay using CTLL-2 mouse T cells. The ED₅₀ for this effect is 8.1-32.4ng/mL, corresponding to a specific activity of 3.09×10⁴-1.23×10⁵units/mg.

Shipping

The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

Storage

Store at -20°C. Store the lyophilized protein at -20°C to -80 °C up to 1 year from the date of receipt.

After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.

Avoid repeated freeze/thaw cycles.

Operational Notes

For your safety and health, please wear a lab coat and disposable gloves for handling.

Product Information

Source

E. coli
 ≥ 95 % as
 determined by SDS-PAGE.

Calculated MW

14.09 kDa

Observed MW

14 kDa

Endotoxin

< 1 EU/μg of the protein by LAL method.

Formulation

Lyophilized from a 0.22 μm filtered solution of PBS, pH 7.4.

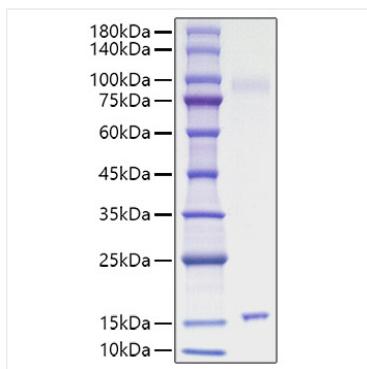
Reconstitution

Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stabilizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize freeze-thaw cycles.

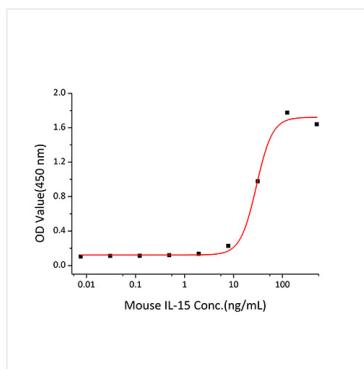
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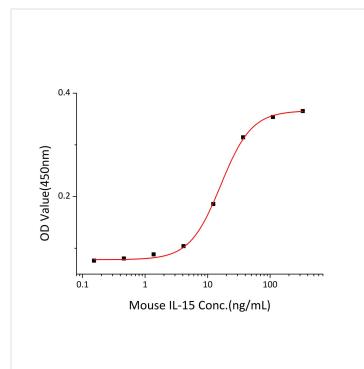
Validation Data



Recombinant Mouse IL-15 Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.



Recombinant Mouse IL-15 stimulates cell proliferation of the HT-2 mouse T cells. The ED₅₀ for this effect is 15-58 ng/mL, corresponding to a specific activity of 1.72×10^4 - 6.67×10^4 units/mg.



Measured in a cell proliferation assay using CTLL-2 mouse T cells. The ED₅₀ for this effect is 8.1-32.4ng/mL, corresponding to a specific activity of 3.09×10^4 ~ 1.23×10^5 units/mg.