

Recombinant Mouse IL-15 Protein

Catalog No.: RP01676

Sequence Information

Species **Gene ID**
Mouse 16168

Swiss Prot **Tags**
P48346 C-6His

Synonyms
Il15, Interleukin-15, IL-15

Product Information

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

Calculated MW **Observed MW**
14.09 kDa 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 free-thaw cycles.

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.

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 1.72×10^4 – 6.67×10^4 units/mg. 2. Measured in a cell proliferation assay using CTLL-2 mouse T cells. The ED₅₀ for this effect is 8.1–32.4 ng/mL, corresponding to a specific activity of 3.09×10^4 – 1.23×10^5 units/mg.

Shipping

Lyophilized proteins are shipped at ambient temperature.
Liquid proteins are shipped at frozen temperature with dry ice.
Upon receipt, store it immediately at the temperature recommended below.

Storage

Store at -20°C

Operational Notes

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

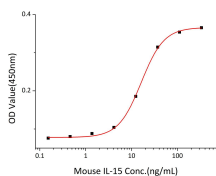
Contact

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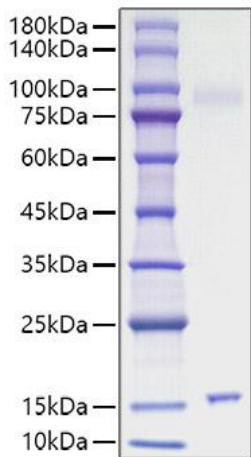
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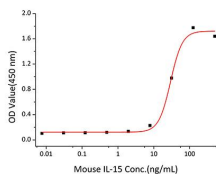
Validation Data



Measured in a cell proliferation assay using CTLL-2 mouse T cells. The ED_{50} for this effect is 8.1-32.4ng/mL, corresponding to a specific activity of $3.09 \times 10^4 \sim 1.23 \times 10^5$ units/mg.



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 ED_{50} for this effect is 15-58 ng/mL, corresponding to a specific activity of $1.72 \times 10^4 \sim 6.67 \times 10^4$ units/mg.