

Active Recombinant Mouse IL15 Protein, His-Tagged

Cat. No. IL15-11102M Lot. No. (See product label)

SPECIFICATION

Product Overview	Mouse IL-15 Protein, His Tag is expressed from E. coli cells. It contains AA Asn 49 - Ser 162 (Accession # P48346). This protein carries a polyhistidine tag at the C-terminus. Predicted N-terminus: Met
Species	Mouse
Source	E. coli
ProteinLength	49-162 aa
Description	Interleukin 15 is also known as IL15, IL-15, and is a cytokine with structural similarity to IL-2. Like IL-2, IL-15 binds to and signals through the IL-2/IL-15 beta chain (CD122) and the common gamma chain (gamma-C, CD132). IL-15 is secreted by mononuclear phagocytes (and some other cells) following infection by virus(es). This cytokine induces cell proliferation of natural killer cells; cells of the innate immune system whose principal role is to kill virally infected cells. Interleukin 15 (IL-15) regulates T and natural killer (NK) cell activation and proliferation. Survival signals that maintain memory T cells in the absence of antigen are provided by IL-15. This cytokine is also implicated in NK cell development. In rodent lymphocytes, IL-15 prevents apoptosis by inducing an apoptosis inhibitor, BCL2L1/BCL-x(L). IL-15 has been shown to enhance the anti-tumor immunity of CD8+ T cells in pre-clinical models. A phase I clinical trial to evaluate the safety, dosing, and anti-tumor efficacy of IL-15 in patients with metastatic melanoma and renal cell carcinoma (kidney cancer) has begun to enroll patients at the National Institutes of Health.

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Form	Lyophilized from 0.22 µm filtered solution in 20 mM Tris, 0.5 M Arginine, 0.3 M NaCl, pH9.5 with trehalose as protectant.
Bio-activity	Immobilized Mouse IL-15 R alpha, Fc Tag at 5 µg/mL (100 µL/well) can bind Mouse IL-15 Protein, His Tag with a linear range of 1-39 ng/mL.
Molecular Mass	The protein has a calculated MW of 15.3 kDa. The protein migrates as 15 kDa when calibrated against Star Ribbon Pre-stained Protein Marker under reducing (R) condition (SDS-PAGE).
Endotoxin	Less than 1.0 EU/µg by the LAL method/rFC method.
Purity	>90% as determined by SDS-PAGE.
Storage	This product is stable after storage at: -20 to -70 centigrade for 12 months in lyophilized state; -70 centigrade for 3 months under sterile conditions after reconstitution. For long term storage, the product should be stored at lyophilized state at -20 centigrade or lower. Please avoid repeated freeze-thaw cycles.
Reconstitution	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 µg/µL. Centrifuge the vial at 4 centigrade before opening to recover the entire contents.

GENE INFORMATION

Gene Name	IL15 interleukin 15 [<i>Mus musculus</i>]
Official Symbol	IL15
Synonyms	IL15; interleukin 15; interleukin-15; IL-15; AI503618;

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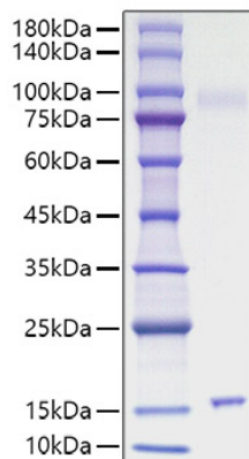
Gene ID 16168

mRNA Refseq NM_001254747

Protein Refseq NP_001241676

UniProt ID P48346

SDS-PAGE.



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