

Active Recombinant Monkey IL15 Protein, His-tagged

Cat. No. IL15-11101M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Cynomolgus/Rhesus macaque IL-15, His Tag is expressed from human 293 cells (HEK293). It contains AA Asn 49 - Ser 162 (Accession # P48092-1). This protein carries a polyhistidine tag at the C-terminus. Predicted N-terminus: Asn 49
Species	Monkey
Source	HEK293
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 PBS, pH7.4 with trehalose as protectant.
Bio-activity	Immobilized Human IL-15 R alpha, Fc Tag at 2 µg/mL (100 µL/well) can bind Cynomolgus/Rhesus macaque IL-15, His Tag with a linear range of 1-8 ng/mL.
Molecular Mass	The protein has a calculated MW of 14.9 kDa. The protein migrates as 14 kDa and 16-18 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.
Endotoxin	Less than 1.0 EU/µg by the LAL method/rFC method.
Purity	>95% 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>Macaca mulatta</i>]
Official Symbol	IL15
Synonyms	IL15; interleukin 15; interleukin-15; IL-15;
Gene ID	699616

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mRNA Refseq	NM_001044731
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Protein Refseq	NP_001038196
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UniProt ID	P48092
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