

Active Recombinant Mouse Il15 Protein (Asn49-Ser162), N-His tagged, Animal-free, Carrier-free

Cat. No. Il15-50M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse Il15 Protein (Asn49-Ser162) with N-His tag was expressed in E. coli and Animal-free as well as Carrier-free.
Species	Mouse
Source	E.coli
ProteinLength	Asn49-Ser162
Description	Interleukin-15 (IL-15) is a 14-15 kDa glycoprotein with immune regulatory functions in many diverse cell types. IL-15 can be constitutively expressed in a variety of cell types stored as intracellular protein in the cytoplasm as well as transport to the cell surface, while only secreted from some cell types including monocytes, dendritic cells, epithelial cells, bone marrow stromal cells, and fibroblasts. As a pleiotropic cytokine, IL-15 mediates the crosstalk between innate immunity and adaptive immunity whose principal role is to kill virally infected cells. IL-15 plays a crucial role in the development, differentiation, and survival of NK cells. In monocytes, IL-15 induces the production of IL-8 and monocyte chemotactic protein 1 (MCP-1), which recruits neutrophils and monocytes to sites of infection. IL-15 can also act as a chemo-attractant in T lymphocytes and regulate the differentiation of T lymphocytes.
Form	Lyophilized
Bio-activity	Measure by its ability to induce CTLL-2 cells proliferation. The ED50 for this effect is <

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	10 ng/mL. The specific activity of recombinant mouse IL-15 is approximately $>1 \times 10^5$ IU/mg.
Molecular Mass	The protein has a calculated MW of 14.2 kDa. The protein migrates as 17 kDa under reducing condition (SDS-PAGE analysis).
Endotoxin	< 0.1 EU/μg of the protein by the LAL method.
Purity	>98% as determined by SDS-PAGE analysis.
Storage	This product is stable after storage at: -20 centigrade for 12 months in lyophilized state from date of receipt. -20 or -80 centigrade for 1 month under sterile conditions after reconstitution. Avoid repeated freeze/thaw cycles.
Storage Buffer	Lyophilized from a 0.2 μm filtered solution of PBS, pH 7.4.
Reconstitution	It is recommended to reconstitute the lyophilized protein in sterile H ₂ O to a concentration not less than 200 μg/mL and incubate the stock solution for at least 20 min to ensure sufficient re-dissolved.
Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at -20 centigrade or lower for long term storage.

GENE INFORMATION

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

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Gene ID 16168

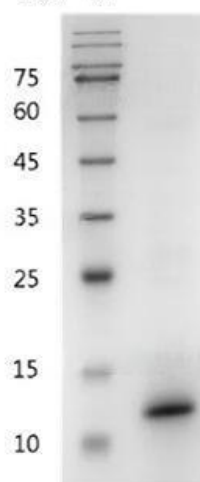
mRNA Refseq NM_001254747

Protein Refseq NP_001241676

UniProt ID P48346

**SDS-PAGE analysis
of recombinant
mouse IL-15.**

kDa M



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