

## Active Recombinant Mouse Interleukin 15, His-tagged

**Cat. No.** II15-739M    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                             |
|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant mouse Il15, fused to His-tagged, was expressed in E. coli and purified by using conventional chromatography after refolding of the isolated inclusion bodies in a redox buffer. MW: 17.6 kDa.                                                                                                                                                   |
| <b>Species</b>          | Mouse                                                                                                                                                                                                                                                                                                                                                       |
| <b>Source</b>           | E.coli                                                                                                                                                                                                                                                                                                                                                      |
| <b>ProteinLength</b>    | 49-162aa                                                                                                                                                                                                                                                                                                                                                    |
| <b>Description</b>      | Il15 is a pleiotropic cytokine that plays a pivotal role in both innate and adaptive immunity and has structural similarity to IL2 that is secreted by mononuclear phagocytes following infection by viruses. Stimulation by Il15 requires interaction of Il15 with components of IL-2R, including IL-2Rbeta and probably IL-2R gamma, but not IL-2R alpha. |
| <b>Form</b>             | Liquid. In Phosphate Buffered Saline (pH7.4) containing 10% glycerol.                                                                                                                                                                                                                                                                                       |
| <b>Bio-activity</b>     | Measured in a cell proliferation assay using CTLL2 mouse cytotoxic T cells. The ED50 for this effect is < 1="">                                                                                                                                                                                                                                             |
| <b>Molecular Mass</b>   | 17.6 kDa (152aa), confirmed by MALDI-TOF.                                                                                                                                                                                                                                                                                                                   |
| <b>AA Sequence</b>      | MRGSHHHHHH GMASMTGGQQ MGRDLYDDDD KDRWGSHMNW IDVRYDLEKI<br>ESLIQSIHID TTLYTDSDFH PSCKVTAMNC FLLELQVILH EYSNMTLNET                                                                                                                                                                                                                                            |

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VRNVLYLANS TLSSNKNVAE SGCKECEELE EKTFTFLQS FIRIVQMFIN TS

**Endotoxin** < 1.0 eu per 1 µg of protein (determined by lal)

**Purity** >90% by SDS - PAGE

**Applications** SDS-PAGE

**Storage** Can be stored at 4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

**Concentration** 0.5 mg/ml (determined by Bradford assay)

## GENE INFORMATION

**Gene Name** [IL15 interleukin 15 \[ Mus musculus \]](#)

**Official Symbol** IL15

**Synonyms** IL15; interleukin 15; interleukin-15; IL-15; AI503618;

**Gene ID** [16168](#)

**mRNA Refseq** [NM\\_001254747](#)

**Protein Refseq** [NP\\_001241676](#)

**Pathway** Cytokine-cytokine receptor interaction, organism-specific biosystem; Cytokine-cytokine receptor interaction, conserved biosystem; Cytokines and Inflammatory Response (BioCarta), organism-specific biosystem; HTLV-I infection, organism-specific biosystem; HTLV-I infection, conserved biosystem; Herpes simplex infection,

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organism-specific biosystem; Herpes simplex infection, conserved biosystem;

**Function**

cytokine activity; cytokine activity; cytokine receptor binding;

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