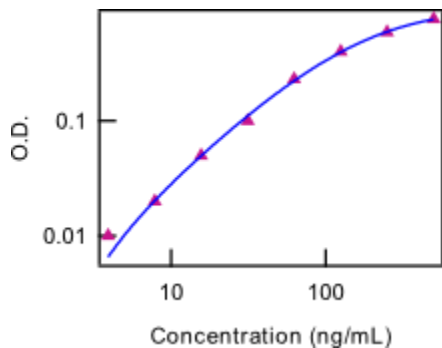


## Mouse IL-15 Recombinant Protein Carrier-Free

**Catalog Number:** 34-8153

Also known as: Interleukin-15, IL15

**RUO: For Research Use Only. Not for use in diagnostic procedures.**



Proliferation of the CTLL-2 cell line in response to Mouse IL-15 Recombinant Protein Carrier-Free

### Product Information

**Contents:** Mouse IL-15 Recombinant Protein Carrier-Free



**Catalog Number:** 34-8153

**Handling Conditions:** For best recovery, quick-spin vial prior to opening. Use in sterile environment.

**Source:** *E. coli* derived, (Asn139-Ser152), accession number NM-008357, His-tagged on the N-terminus

**Molecular Mass:** 15 kDa

**Purity:** Greater than 98%, as determined by SDS-PAGE

**Endotoxin:** Less than 0.1 ng/ug cytokine as determined by the LAL assay

**Bioactivity:** The bioactivity of recombinant mouse IL-15 was determined by CTLL-2 cell proliferation assay. The ED<sub>50</sub> in this assay is 100 ng/mL, which corresponds to a specific activity of 10<sup>4</sup> Units/mg.

**Formulation:** Sterile liquid, 0.1 M Glycine, pH 3.0



**Temperature Limitation:** Store at less than or equal to -70°C.



**Batch Code:** Refer to vial



**Use By:** Refer to vial

### Description

Mouse IL-15 is a 14-15 kDa factor, previously known as IL-T. IL-15 is produced by a variety of cells and has a role in the T cell-mediated immune response and the central nervous system. IL-15 binds to the  $\beta$  and  $\gamma$  subunits of the IL-2 receptor; however, these two cytokines have distinct biological activities. IL-15 is a specific maturation factor for NK cells and mimics the BM microenvironment for NK cell development *in vitro*. It is reported that IL-15 delivers an anti-apoptotic and survival signal for NK, T, and B cells.

### Applications Reported

Recombinant mouse IL-15 is biologically active.

Not for further distribution without written consent.

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Tel: 888.999.1371 or 858.642.2058 • Fax: 858.642.2046 • [www.ebioscience.com](http://www.ebioscience.com) • [info@ebioscience.com](mailto:info@ebioscience.com)

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### Applications Tested

This recombinant mouse IL-15 has been tested in CTLL-2 cell proliferation assay with an observed ED<sub>50</sub> of 100.0 ng/ml, corresponding to a specific activity of approximately 10<sup>4</sup> Units/mg.

### References

Gill, N. and Ashkar, A. Overexpression of interleukin-15 compromises CD4-dependent adaptive immune responses against Herpes Simplex Virus 2. *J Virol.* 2009 Jan; 83(2) 918-926

Liew, F. and McInnes, I. Role of interleukin-15 and interleukin-18 in the inflammatory response. *Ann Rheum Dis.* 2002; 61(2) 100-102

Giri JG, Kumaki S, Ahdieh M, Friend DJ, Loomis A, Shanebeck K, DuBose R, Cosman D, Park LS, Anderson DM. Identification and cloning of a novel IL-15 binding protein that is structurally related to the alpha-chain of the IL-2 receptor. *Embo J.* 1995 Aug; 14(15) 3654-3663

### Related Products

14-8152 Mouse IL-15/IL-15R Complex Recombinant Protein

16-7154 Anti-Mouse IL-15 Functional Grade Purified (AIO.3)