

Active Recombinant Mouse Interleukin 15, His-tagged

Cat. No. II15-533M Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse IL-15 was expressed in E. coli and purified by using conventional chromatography after refolding of the isolated inclusion bodies in a redox buffer.
Species	Mouse
Source	Mouse
Description	Interleukin (IL)-15 is a pleiotropic cytokine that plays a pivotal role in both innate and adaptive immunity and has structural similarity to IL-2 that is secreted by mononuclear phagocytes following infection by viruses. Stimulation by IL-15 requires interaction of IL-15 with components of IL-2R, including IL-2Rbeta and probably IL-2R gamma, but not IL-2R alpha. This cytokine is produced by a wide variety of cells and tissues and like IL-2, stimulates the proliferation of T-lymphocytes and induces the generation of cytotoxic T-lymphocytes (CTLs) and lymphokine-activated killer (LAK) cells.
Concentration	0.5 mg/ml
Form	Supplied as a liquid in PBS, pH7.4, containing 10% glycerol.
Purity	> 90% by SDS - PAGE
Sequence	49-162 amino acids: MRGSHHHHHH GMASMTGGQQ MGRDLYDDDD KDRWGSHMNW IDVRYDLEKI ESLIQSIHID TTLYTDSDFH PSCKVTAMNC FLLELQVILH EYSNMTLNET VRNVLYLANS TLSSNKNVAE SGCKECEELE

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EKTFTEFLQS FIRIVQMFIN TS

Molecular Mass 17.6 kDa (152aa), confirmed by MALDI-TOF.

Applications SDS-PAGE

Endotoxin Levels < 1.0 EU per ug of protein (determined by LAL method)

Bioactivity Measured in a cell proliferation assay using CTLL2 mouse cytotoxic T cells. The ED50 for this effect is < 1 ng/ml.

Storage Store at 4 deg C for short term storage (1/2 weeks). Aliquot and store at -20 deg C or -70 deg C for long term storage. Avoid repeated freeze/thaw cycles.

GENE INFORMATION

Gene Name [Il15 interleukin 15 \[Mus musculus \]](#)

Official Symbol Il15

Synonyms Il15; interleukin 15; AI503618

Gene ID [16168](#)

mRNA Refseq [NM_008357](#)

Protein Refseq [NP_032383](#)

UniProt ID P48346

Chromosome Location 8 C2; 8 38.0 cM

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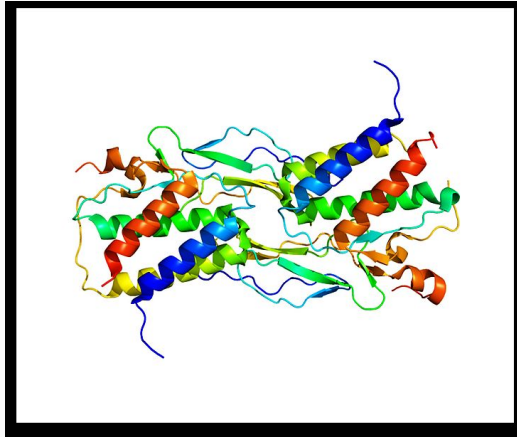
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Pathway Cytokine-cytokine receptor interaction; Jak-STAT signaling pathway

Function cytokine activity; cytokine receptor binding

Rendering based
onPDB 2Z3Q.



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