Active Recombinant Mouse Interleukin 15, His-tagged

Cat. No. Il15-533M **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

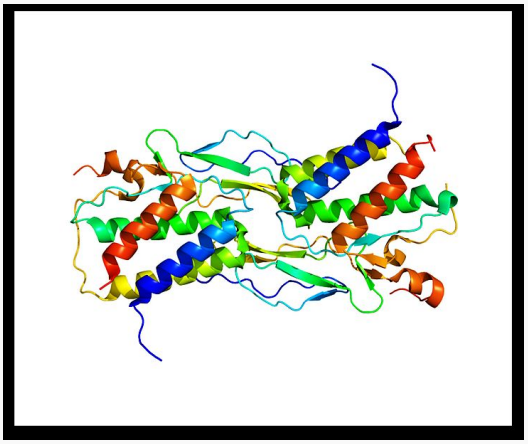
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	EKTFTEFLQS FIRIVQMFIN TS
Molecular Mass	17.6 kDa (152aa), confirmed by MALDI-TOF.
Applications	SDS-PAGE
Endotoxin Levels	< 1.0 EU per ug of protein (determined by LAL method)
Bioactivity	Measured in a cell proliferation assay using CTLL2 mouse cytotoxic 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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Pathway	Cytokine-cytokine receptor interaction; Jak-STAT signaling pathway
Function	cytokine activity; cytokine receptor binding
Rendering based onPDB 2Z3Q.	

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