

## Product datasheet for **AR09175PU-L**

### Interleukin-15 / IL15 (49-162, His-tag) Mouse Protein

#### Product data:

<b>Product Type:</b>	Recombinant Proteins
<b>Description:</b>	Interleukin-15 / IL15 (49-162, His-tag) mouse recombinant protein, 0.25 mg
<b>Species:</b>	Mouse
<b>Expression Host:</b>	E. coli
<b>Expression cDNA Clone or AA Sequence:</b>	<u>MRGSHHHHHH</u> GMASMTGGQQ MGRDLYDDDD KDRWGSHMNW IDVRYDLEKI ESLIQSIHID TLLYTDSDFH PSCKVTAMNC FLLELQVILH EYSNMTLNET VRNVLYLANS TLSSNKNVAE SGCKECEELE EKTFTFEFLQS FIRIVQMFIN TS
<b>Tag:</b>	His-tag
<b>Predicted MW:</b>	17.6 kDa
<b>Concentration:</b>	lot specific
<b>Purity:</b>	>90% by SDS - PAGE
<b>Buffer:</b>	Presentation State: Purified State: Liquid purified protein Buffer System: PBS, pH 7.4, containing 10% glycerol
<b>Bioactivity:</b>	Biological: Measured in a cell proliferation assay using CTLL2 mouse cytotoxic T cells. The ED50 for this effect is < 1 ng/ml. <u>Activity Assay</u> 1. Cell line: CTLL2 (mouse cytotoxic T cell) 2. Maintenance Condition: 10% FBS RPMI 1640 with hIL2 3. Assay Medium: 10% FBS RPMI 1640 without hIL2 4. Cell Density: 2 x 10 <sup>4</sup> cells/well (96 well plate, final volume 100ul) 5. Starvation : 24hr, Assay medium 6. Incubation Time : 24hr (after sample treatment) 7. Concentration Range: 0.039 ng/ml - 40 ng/ml 8. Detection method : MTT assay
<b>Endotoxin:</b>	< 1.0 EU per 1 µg of protein (determined by LAL method )
<b>Preparation:</b>	Liquid purified protein



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<b>Protein Description:</b>	Recombinant mouse IL-15, His-tagged, was expressed in E.coli and purified by using conventional chromatography after refolding of the isolated inclusion bodies in a redox buffer.
<b>Storage:</b>	Store undiluted at 2-8°C for up to two weeks or (in aliquots) at -20°C or -70°C for longer. Avoid repeated freezing and thawing.
<b>Stability:</b>	Shelf life: one year from despatch.
<b>RefSeq:</b>	<a href="#">NP_001241676</a>
<b>Locus ID:</b>	16168
<b>UniProt ID:</b>	<a href="#">P48346</a> , <a href="#">Q3U1Z6</a>
<b>Cytogenetics:</b>	8 39.33 cM
<b>Synonyms:</b>	IL-15
<b>Summary:</b>	This gene encodes a pleiotropic cytokine of the interleukin family of proteins that plays important roles in the innate and adaptive cell homeostasis, as well as peripheral immune function. The encoded protein undergoes proteolytic processing to generate a mature cytokine that stimulates the proliferation of natural killer cells. The transgenic mice overexpressing the encoded protein exhibit an increase in the number of memory CD8+ T cells in a naive state and enhanced protection against bacterial infections. Mice lacking the encoded protein exhibit impaired protection against a strain of attenuated Mycobacterium. [provided by RefSeq, Aug 2016]

### Product images:

