

## Product datasheet for **AR09050PU-L**

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

#### Product data:

<b>Product Type:</b>	Recombinant Proteins
<b>Description:</b>	Interleukin-15 / IL15 (49-162, His-tag) human recombinant protein, 0.5 mg
<b>Species:</b>	Human
<b>Expression Host:</b>	E. coli
<b>Expression cDNA Clone or AA Sequence:</b>	MNWWNVISDL KKIEDLIQSM HIDATLYTES DVHPSCKVTA MKCFLELQV ISLESGDASI HDTVENLIIL ANNSLSSNGN VTESGCKECE ELEEKNIKEF LQSFVHIVQM FINTS <u>LEHHH HHH</u>
<b>Tag:</b>	His-tag
<b>Predicted MW:</b>	13.9 kDa
<b>Concentration:</b>	lot specific
<b>Purity:</b>	>95% by SDS PAGE
<b>Buffer:</b>	Presentation State: Purified State: Liquid purified protein Buffer System: PBS, pH 7.4, 0.2 mM PMSF, 10% glycerol
<b>Bioactivity:</b>	Biological: Measured in a cell proliferation assay using CTLL2 mouse cytotoxic T cells. The ED50 for this effect is < 2.5 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 10e4 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
<b>Protein Description:</b>	Recombinant human IL-15, fused to His-tag, was expressed in E.coli and purified by using conventional chromatography after refolding of the isolated inclusion bodies in a redox buffer.



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<b>Storage:</b>	Store (in aliquots) at -20°C. Avoid repeated freezing and thawing.
<b>Stability:</b>	Shelf life: one year from despatch.
<b>RefSeq:</b>	<a href="#">NP_000576</a>
<b>Locus ID:</b>	3600
<b>UniProt ID:</b>	<a href="#">P40933</a>
<b>Cytogenetics:</b>	4q31.21
<b>Synonyms:</b>	IL-15
<b>Summary:</b>	<p>The protein encoded by this gene is a cytokine that regulates T and natural killer cell activation and proliferation. This cytokine and interleukine 2 share many biological activities. They are found to bind common hematopoietin receptor subunits, and may compete for the same receptor, and thus negatively regulate each other's activity. The number of CD8+ memory cells is shown to be controlled by a balance between this cytokine and IL2. This cytokine induces the activation of JAK kinases, as well as the phosphorylation and activation of transcription activators STAT3, STAT5, and STAT6. Studies of the mouse counterpart suggested that this cytokine may increase the expression of apoptosis inhibitor BCL2L1/BCL-x(L), possibly through the transcription activation activity of STAT6, and thus prevent apoptosis. Alternatively spliced transcript variants of this gene have been reported. [provided by RefSeq, Feb 2011]</p>
<b>Protein Families:</b>	Druggable Genome, Secreted Protein
<b>Protein Pathways:</b>	Cytokine-cytokine receptor interaction, Jak-STAT signaling pathway

### Product images:

