

## Product datasheet for **AR09046PU-L**

### Interleukin-2 / IL2 (C145S) Human Protein

#### Product data:

<b>Product Type:</b>	Recombinant Proteins
<b>Description:</b>	Interleukin-2 / IL2 (C145S) human recombinant protein, 0.5 mg
<b>Species:</b>	Human
<b>Expression Host:</b>	E. coli
<b>Expression cDNA Clone or AA Sequence:</b>	MPTSSTKKT QLQLEHLLLD LQMILNGINN YKNPKLTRML TFKFYMPKKA TELKHLQCLE EELKPLEEVL NLAQSKNFHL RPRDLISNIN VIVLELKGSE TTFMCEYADE TATIVEFLNR WITFSQSIIS TLT
<b>Predicted MW:</b>	15.4 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
<b>Bioactivity:</b>	Biological: Measured in a cell proliferation assay using CTLL2 mouse cytotoxic T cells. The ED50 for this effect is < 1.5 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>Preparation:</b>	Liquid purified protein
<b>Protein Description:</b>	This recombinant human IL-2 is a 15.4 kDa protein, containing 133 amino acid residues including one intra chain disulfide bond. Recombinant human IL-2 was overexpressed in E. coli and purified by conventional chromatography, after refolding of the isolated inclusion bodies in a renaturation buffer.
<b>Storage:</b>	Store (in aliquots) at -20°C. Avoid repeated freezing and thawing.



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<b>Stability:</b>	Shelf life: one year from despatch.
<b>RefSeq:</b>	<a href="#">NP_000577</a>
<b>Locus ID:</b>	3558
<b>UniProt ID:</b>	<a href="#">P60568</a>
<b>Cytogenetics:</b>	4q27
<b>Synonyms:</b>	IL-2, TCGF
<b>Summary:</b>	<p>This gene is a member of the interleukin 2 (IL2) cytokine subfamily which includes IL4, IL7, IL9, IL15, IL21, erythropoietin, and thrombopoietin. The protein encoded by this gene is a secreted cytokine produced by activated CD4+ and CD8+ T lymphocytes, that is important for the proliferation of T and B lymphocytes. The receptor of this cytokine (IL2R) is a heterotrimeric protein complex whose gamma chain is also shared by IL4 and IL7. The expression of this gene in mature thymocytes is monoallelic, which represents an unusual regulatory mode for controlling the precise expression of a single gene. The targeted disruption of a similar gene in mice leads to ulcerative colitis-like disease, which suggests an essential role of this gene in the immune response to antigenic stimuli. [provided by RefSeq, Sep 2020]</p>
<b>Protein Families:</b>	Druggable Genome, Secreted Protein
<b>Protein Pathways:</b>	Allograft rejection, Autoimmune thyroid disease, Cytokine-cytokine receptor interaction, Graft-versus-host disease, Jak-STAT signaling pathway, T cell receptor signaling pathway, Type I diabetes mellitus

### Product images:

