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## Human IL-2 Recombinant Protein

**Catalog Number:** 14-8029

**Also Known As:** Interleukin-2, IL2

**RUO: For Research Use Only**

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### Product Information

**Contents:** Human IL-2 Recombinant Protein

**REF** **Catalog Number:** 14-8029

**Handling Conditions:** For best recovery, quick-spin vial prior to opening. Use in a sterile environment


**Source:** *E. coli*

**Purity:** Greater than 98%, as determined by SDS-PAGE

**Endotoxin Level:** Less than 0.01 ng/ug cytokine as determined by the LAL assay.

**Bioactivity:** The ED50 of this protein, as measured by CTLL-2 proliferation assay, is less than or equal to 175 pg/mL. This corresponds to a specific activity of greater than or equal to 5.7 x 10e6 Units/mg.

**Formulation:** Sterile liquid: 40mM Acetate, 0.2M NaCl, pH 5, 1.0% BSA . 0.22 µm filtered.

 **Temperature Limitation:** Store at less than or equal to -70°C.

**LOT** **Batch Code:** Refer to Vial

 **Use By:** Refer to Vial

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### Description

Human IL-2 (also known as TCGF) is a ~15 kDa factor produced mainly by activated CD4<sup>+</sup> T cells. IL-2 induces cell cycle progression of resting cells in an antigen non-specific manner and allows clonal expansion of activated T cells. IL-2 also acts on activated B cells, monocytes, NK, LAK cells, and on oligodendroglial cells *in vitro*. In addition, IL-2 plays a role in hematopoiesis, tumor surveillance and anti-inflammatory reactions and hence is a central regulator of the immune response. Non-glycosylated IL-2 is biologically active.

### Applications Reported

Recombinant human IL-2 is biologically active and can promote proliferation of T lymphocytes in culture. It is also used as standard in human IL-2 ELISA.

### Applications Tested

The ED50 of this protein, as measured by CTLL-2 proliferation assay, is less than or equal to 175 pg/mL. This corresponds to a specific activity of greater than or equal to 5.7 x 10e6 Units/mg.

### Related Products

13-7028 Anti-Human IL-2 Biotin (Polyclonal)

14-7029 Anti-Human IL-2 Purified (MQ1-17H12)

88-7026 Human IL-2 ELISA Ready-SET-Go!<sup>®</sup>

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