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## Mouse IL-2 Recombinant Protein Carrier-Free

**Catalog Number:** 34-8021

**Also Known As:** Interleukin-2

**RUO: For Research Use Only. Not for use in diagnostic procedures.**

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### Product Information

**Contents:** Mouse IL-2 Recombinant Protein Carrier-Free

 **Catalog Number:** 34-8021

**Concentration:** 0.5 mg/mL

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

**Source:** E. coli expressed amino acids Ala 21-Gln 169 of mouse IL-2 accession # MMIL04

**Molecular Mass:** The protein is a mixture of N-terminally methionylated and non-methionylated protein. The DTT-reduced and non-reduced protein migrates as 18 kDa polypeptides on SDS-PAGE.

**Purity:** > 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 cell 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 10<sup>6</sup> Units/mg.

**Formulation:** Sterile liquid; 5 mM citric acid, 5 mM NaHPO<sub>4</sub>, 0.4 M NaCl, pH 4.0, 1 mM DTT. 0.22 um filtered.



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



**Batch Code:** Refer to Vial



**Use By:** Refer to Vial

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### Description

Mouse IL-2 (also known as TCGF) is an ~17 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 cells, 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 mouse IL-2 is biologically active and can promote proliferation of mouse T lymphocytes in culture.

### Applications Tested

The ED50 of this protein, as measured by CTLL-2 cell 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 10<sup>6</sup> Units/mg.

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