

Mouse IL-2 Recombinant Protein

Catalog Number: 14-8021

Also Known As: Interleukin-2, IL2

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

Product Information

Contents: Mouse IL-2 Recombinant Protein

REF **Catalog Number:** 14-8021

Handling Conditions: For best recovery, quick-spin vial prior to opening. Use in a 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. Th DTT-reduced and non-reduced protein migrates as 18 kDa polypeptides on SDS-PAGE.

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 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 10⁶ Units/mg.

Formulation: Sterile liquid; 5 mM Citrate, 5 mM NaHPO₄, 0.1 mM TCEP, pH 4.0 with 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

Description

Mouse IL-2 (also known as TCGF) is an ~17 kDa factor produced mainly by activated CD4⁺ 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. It is also used as a standard in mouse IL-2 ELISA.

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 10⁶ Units/mg.

Related Products

00-4202 ELISA Diluent Solution (5X)

13-7021 Anti-Mouse IL-2 Biotin (JES6-5H4)

14-7022 Anti-Mouse IL-2 Purified (JES6-1A12)

18-4100 Avidin HRP

44-2404 Nunc MaxiSorp® flat-bottom 96 well plate

88-7024 Mouse IL-2 ELISA Ready-SET-Go!®

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