

Recombinant Human Interleukin 2 Catalog Number: SJB03

Strength: 10µg, 50µg

Specifications and Use

Description : Recombinant human IL-2 produced in Yeast is a single, non-glycosylated, polypeptide chain containing 133 amino acids, one pair of disulfide bond and with 125 cys. aa. mutated to Ala aa, having a molecular mass of approximately 15.4kD.

Source : Yeast.

Molecular Mass : Approximately 15.4kD.

Purity : ≥97%, as determined by SDS-PAGE and HPLC method.

Endotoxin Level : ≤1EU/µg, determined by the LAL method.

Biological Activity : Measured in a cell proliferation assay using an IL-2 dependent Mouse cytotoxic T cell line, CTLL-2. The specific activity shall be not less than 3×10⁷ IU/mg.

Formulation : Lyophilized from a 0.2µm filtered solution in 10mM Phosphate buffer containing 0.3% human serum albumin.

Reconstitution : It is recommended that sterile ddH₂O containing at least 0.1% human serum albumin or bovine serum albumin be added to the vial, to prepare a stock solution of not less than 1µg/ml.

Storage : Lyophilized samples are stable for greater than six months from date of receipt at -20° to -70°C.

■ Upon reconstitution, this cytokine can be stored under sterile conditions at 2-8°C for one month or at -20° to -70°C in a manual defrost freezer for three months without detectable loss of activity.

■ **Avoid repeated freeze-thaw cycles.**

Human Interleukin 2

Human IL-2 (also known as TCGF) is an about 15.4KD 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, 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. Recombinant human IL-2 is biologically active and can promote proliferation of T lymphocytes in culture.

FOR RESEARCH USE ONLY. NOT FOR HUMAN USE.