

Human Interleukin 2 (IL-2)

CATALOG NUMBER: IL-02-010P, 10 µg

Introduction	<p>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.</p> <p>IL-2 has been tested in many clinical trials as an immunotherapy for the treatment of cancers, chronic viral infections and as adjuvants for vaccines</p>
Description	<p>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.</p>
Source	<p>Yeast</p>
Purity	<p>≥ 97% purity (by SDS PAGE and HPLC)</p>
Endotoxin Level	<p>≤1 EU/mg, determined by the LAL method</p>
Biological Activity	<p>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 3×10⁷IU/mg.</p>
Formulation	<p>Lyophilized from a 0.2µm filtered solution in 20mM Phosphate Buffer</p> <p>Reconstitute with double distilled water at a concentration of no less than 1 µg/ml with 0.1% human serum albumin (A highly purified plant-derived human serum albumin is strongly suggested to be used, Cat# HAS-1r) or bovine serum albumin as a stock.</p>
Storage	<p>Stable for 6-months from the date of shipment when kept at -20 °C or -70 °C. Upon reconstitution, it can be stored at 4 °C for at least one month or -20 °C for at least three months. Avoid repeated freeze-thaw cycles.</p>
Usage	<p>This product is produced for LABORATORY RESEARCH USE ONLY.</p>

