

## Active Recombinant Human IL2

Cat. No. IL2-2741H Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	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 15.4kDa.
<b>Species</b>	Human
<b>Source</b>	Yeast
<b>ProteinLength</b>	133 a.a.
<b>Description</b>	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.
<b>Form</b>	Lyophilized from a 0.2µm filtered solution in 10mM Phosphate buffer containing 0.3% human serum albumin.
<b>Bio-activity</b>	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 3×10 <sup>7</sup> IU/mg.

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

<b>Endotoxin</b>	≤1EU/μg, determined by the LAL method
<b>Purity</b>	≥97%, as determined by SDS-PAGE and HPLC method.
<b>Usage</b>	FOR RESEARCH ONLY
<b>Storage</b>	Lyophilized samples are stable for greater than six months from date of receipt at -20 centigrade to -70 centigrade. The reconstituted samples can be stored under sterile conditions at 2-8 centigrade for one month or at -20 centigrade to -70 centigrade for three months without detectable loss of activity. Avoid repeated freeze-thaw cycles.
<b>Reconstitution</b>	It is recommended that sterile ddH <sub>2</sub> O 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.

## GENE INFORMATION

<b>Gene Name</b>	IL2 interleukin 2 [ Homo sapiens ]
<b>Official Symbol</b>	IL2
<b>Synonyms</b>	IL-2; TCGF; lymphokine; interleukin-2; T cell growth factor; aldesleukin; involved in regulation of T-cell clonal expansion
<b>Gene ID</b>	3558
<b>mRNA Refseq</b>	NM_000586
<b>Protein Refseq</b>	NP_000577
<b>MIM</b>	147680

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA



<b>UniProt ID</b>	P60568
<b>Chromosome Location</b>	4q26-q27
<b>Pathway</b>	AhR pathway, organism-specific biosystem; Autoimmune thyroid disease, organism-specific biosystem; Chagas disease (American trypanosomiasis), organism-specific biosystem
<b>Function</b>	carbohydrate binding; cytokine activity; glycosphingolipid binding

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA