Active Recombinant Human IL2

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

SPECIFICATION

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

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Endotoxin	≤1EU/μg, determined by the LAL method
Purity	≥97%, as determined by SDS-PAGE and HPLC method.
Usage	FOR RESEARCH ONLY
Storage	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.
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.

GENE INFORMATION

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

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

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