

Active Recombinant Human IL2, His tagged

Cat. No. IL2-501H Lot. No. (See product label)

SPECIFICATION

Product Overview Recombinant Human Interleukin-2/IL-2 is produced by our mammalian expression system in human cells. The target protein is expressed with sequence (Pro22-Thr153) of Human IL-2 fused with a polyhistidine tag at the C-terminus.

Species Human

Source Human Cells

ProteinLength 22-153 a.a.

Description Recombinant Human Interleukin-2 is a highly purified protein with a molecular weight of approximately 15,300 Daltons. The chemical name is des-alanyl-1, serine-125 Human Interleukin-2. It is produced by recombinant DNA technology using a genetically engineered E. coli strain containing an analog of the human interleukin-2 gene. Genetic engineering techniques were used to modify the Human IL-2 gene, and the resulting expression clone encodes a modified Human IL-2. This recombinant form differs from native Interleukin-2 in following ways: 1) it is not glycosylated; 2) the molecule has no N-terminal alanine; 3) the molecule has serine substituted for cysteine at amino acid position 125; 4) the aggregation state of molecule is likely to be different from that of native IL-2.

Form Lyophilized from a 0.2 µM filtered solution of 20mM PB, 150mM NaCl, pH 7.4.

Bio-activity >1.0 x 10⁷ U/mg

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| Endotoxin | Less than 0.1 EU/μg. |
| Purity | Greater than 95% as determined by SEC-HPLC and reducing SDS-PAGE. |
| Storage | Lyophilized protein should be stored at < -20°C, though stable at room temperature for 3 months. Reconstituted protein solution can be stored at 4-7°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 5 months. |
| Reconstitution | Always centrifuge tubes before opening. Do not mix by vortex or pipetting. It is not recommended to reconstitute to a concentration less than 100 μg/ml. Dissolve the lyophilized protein in 1X PBS. Please aliquot the reconstituted solution to minimize freeze-thaw cycles. |

GENE INFORMATION

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| Gene Name | IL2 interleukin 2 [Homo sapiens] |
| Official Symbol | IL2 |
| Synonyms | IL2; interleukin 2; interleukin-2; IL 2; T cell growth factor; TCGF; aldesleukin; involved in regulation of T-cell clonal expansion; IL-2; lymphokine; |
| Gene ID | 3558 |
| mRNA Refseq | NM_000586 |
| Protein Refseq | NP_000577 |
| MIM | 147680 |
| UniProt ID | P60568 |

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|----------------------------|---|
| Chromosome Location | 4q26-q27 |
| Pathway | Allograft rejection, organism-specific biosystem; Allograft rejection, conserved biosystem; Autoimmune thyroid disease, organism-specific biosystem; Autoimmune thyroid disease, conserved biosystem; Calcineurin-regulated NFAT-dependent transcription in lymphocytes, organism-specific biosystem; Calcium signaling in the CD4+ TCR pathway, organism-specific biosystem; Chagas disease (American trypanosomiasis), organism-specific biosystem; |
| Function | carbohydrate binding; cytokine activity; glycosphingolipid binding; growth factor activity; interleukin-2 receptor binding; interleukin-2 receptor binding; kappa-type opioid receptor binding; kinase activator activity; |

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