

Active Recombinant Human interleukin 2

Cat. No. IL2-741H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant human IL2 was overexpressed in E. coli and purified by conventional chromatography. MW: 15.4 kDa.
Species	Human
Source	E.coli
ProteinLength	22-153 aa
Description	IL2 is an immunoregulatory lymphokine produced by T-cells in response to antigenic or mitogenic stimulation. IL2 signaling is required for T-cell proliferation and other fundamental functions which are essential for the immune response. IL2 stimulates growth and differentiation of B-cells, NK cells, lymphokine activated killer cells, monocytes, macrophages and oligodendrocytes.
Form	Liquid. 20mM MES buffer (pH5.0).
Bio-activity	The ED50 for this effect is < 1.5 ng/ml measured in a cell proliferation assay using cll2 mouse cytotoxic t>
Molecular Mass	15.4 kDa (133 aa), confirmed by MALDI-TOF.
AA Sequence	MPTSSSTKKT QLQLEHLLLD LQMILNGINN YKNPKLTRML TFKFYMPKKA TELKHLQCLE EELKPLEEVL NLAQSKNFHL RPRDLISNIN VIVLELKGSE TTFMCEYADE TATIVEFLNR WITFSQSIIS TLT

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Endotoxin	< 1.0 eu per 1 ug of protein (determined by lal)
Purity	>95% by SDS - PAGE
Applications	SDS-PAGE
Storage	Can be stored at 4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.
Concentration	0.5 mg/ml (determined by BCA assay)

GENE INFORMATION

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
Chromosome Location	4q26-q27

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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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