

Recombinant Human IL-2

Cat. No. IL2-68H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human IL-2 was produced in yeast and therefore does not have endotoxin, is naturally folded, and post-translationally modified.
Description	Interleukin-2 (IL-2) is a cytokine produced by T-helper cells in response to antigenic or mitogenic stimulation. It is required for T-cell proliferation and other activities crucial to the regulation of the immune response. IL-2 was discovered to be a member of a family of cytokines, which also includes IL-4, IL-7, IL-9, IL-15 and IL-21. IL-2 signals through a receptor complex consisting of IL-2 specific IL-2 receptor alpha (CD25), IL-2 receptor beta (CD122) and a common gamma chain (yc). All members of this family use the common gamma chain as part of their signaling complex.
Source	Yeast
Species	Human
Form	Lyophilized
Molecular Mass	15.4 kDa
AA Sequence	APTSSTKKT QLQLEHLLLD LQMILNGINN YKNPKLTRML TFKFYMPKKA TELKHLQCLE EELKPLEEVL NLAQSKNFHL RPRDLISNIN VIVLELKGSE TTFMCEYADE TATIVEFLNR WITFCQSIIS TLT (133)
Applications	The Human IL-2 protein can be used in cell culture, as an IL-2 ELISA Standard, and as a Western Blot Control.

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Storage -20 C

GENE INFORMATION

Gene Name	IL2 interleukin 2 [<i>Homo sapiens</i>]
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
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;

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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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